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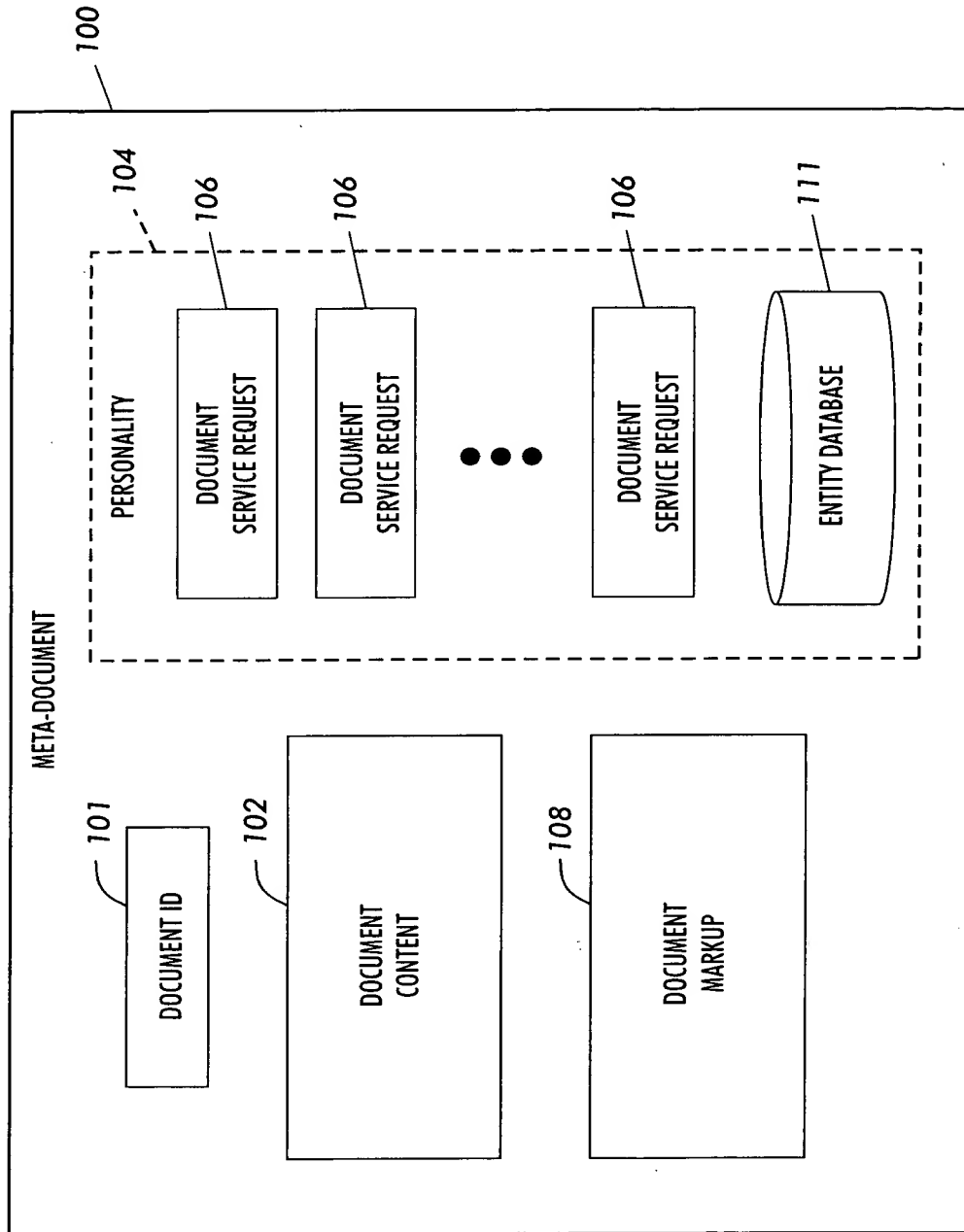


FIG. 1

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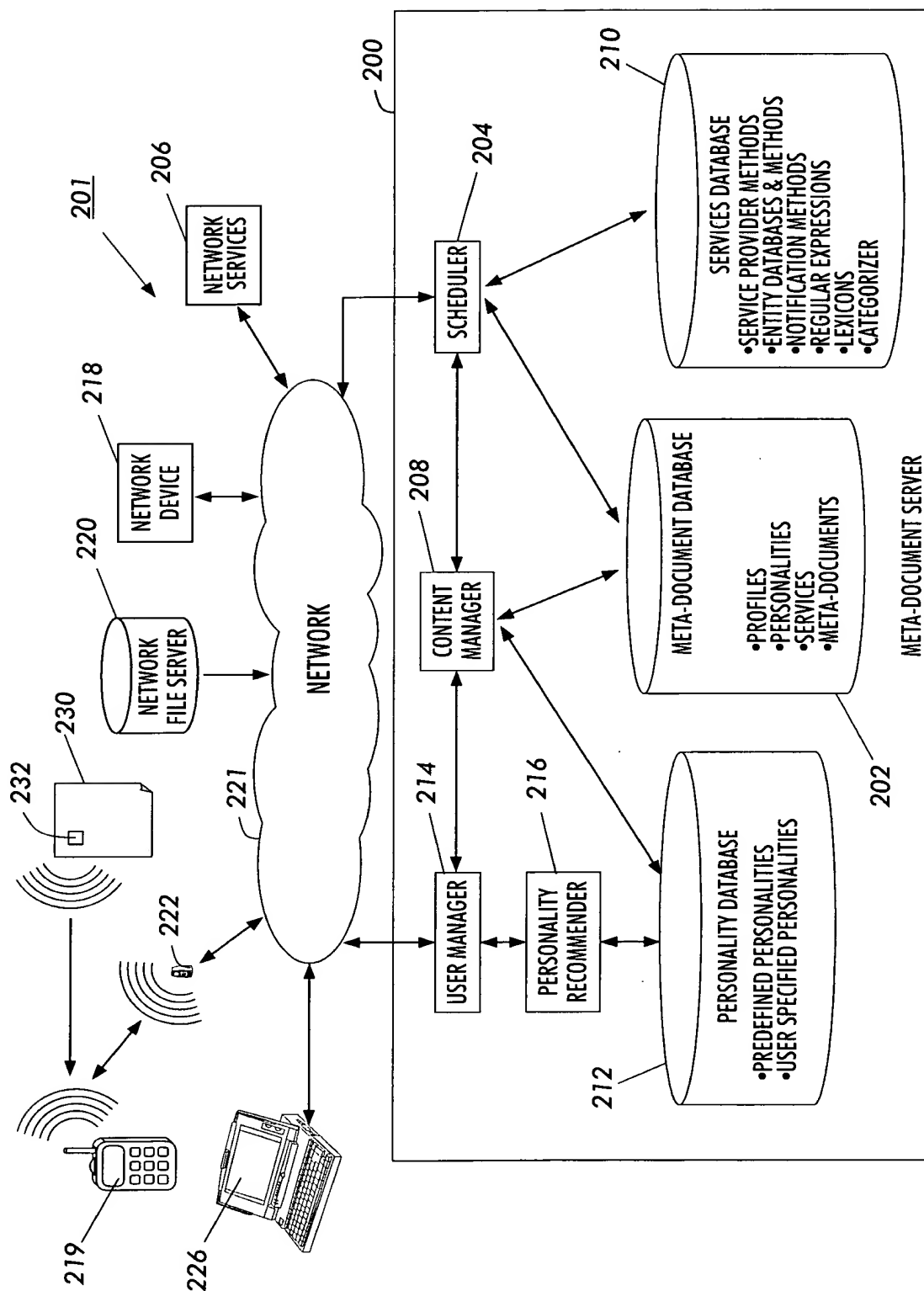


FIG. 2

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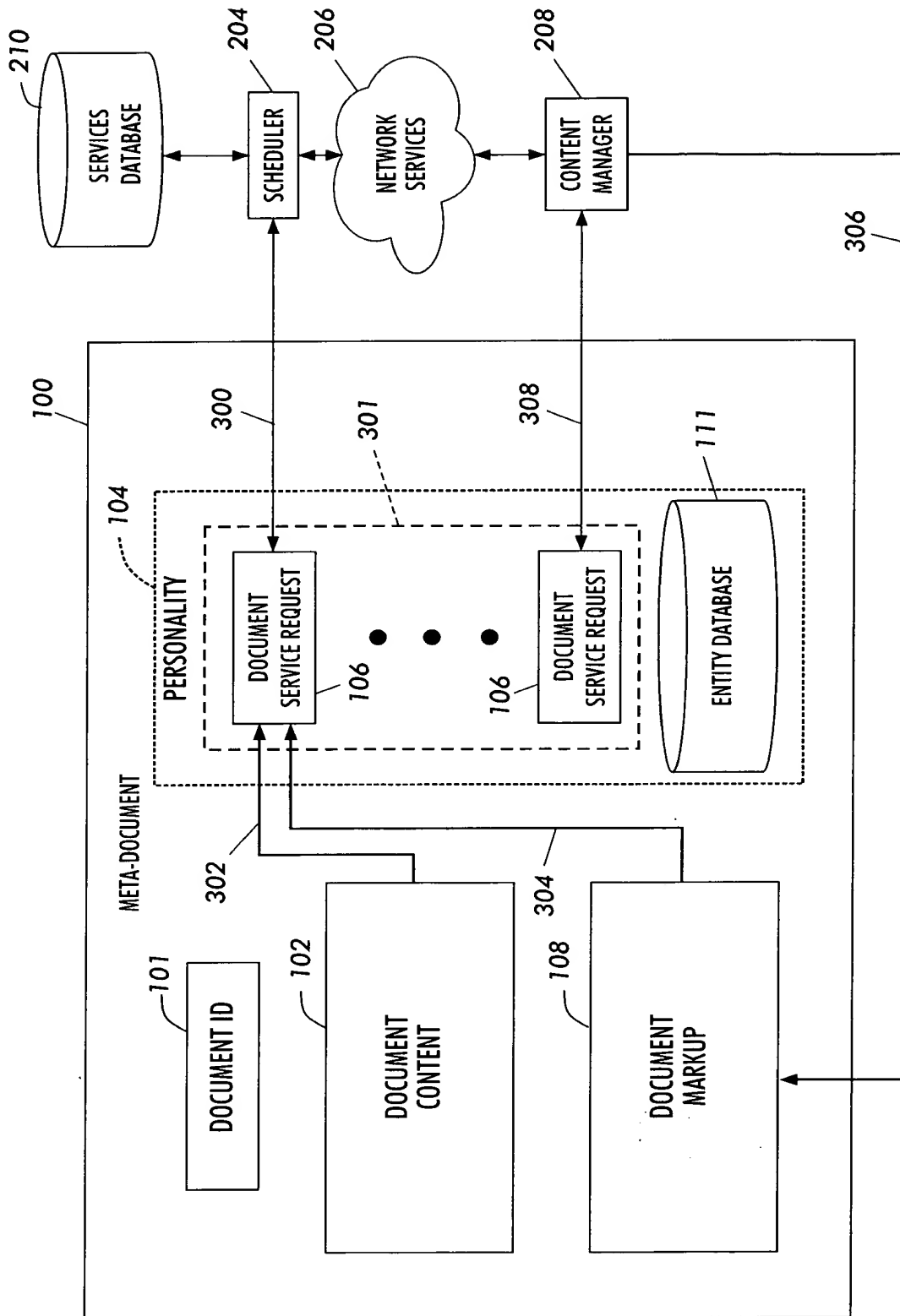


FIG. 3

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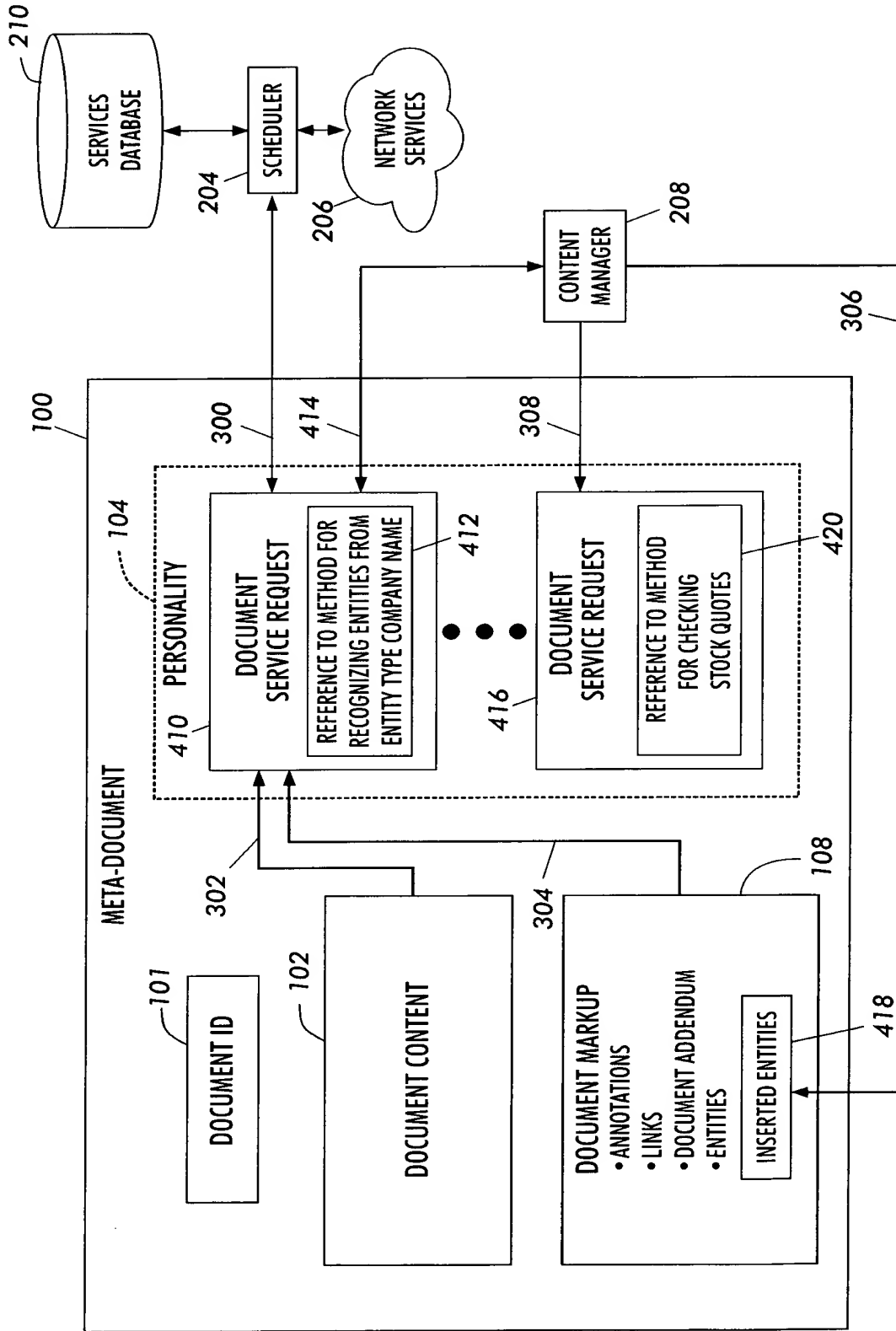


FIG. 4

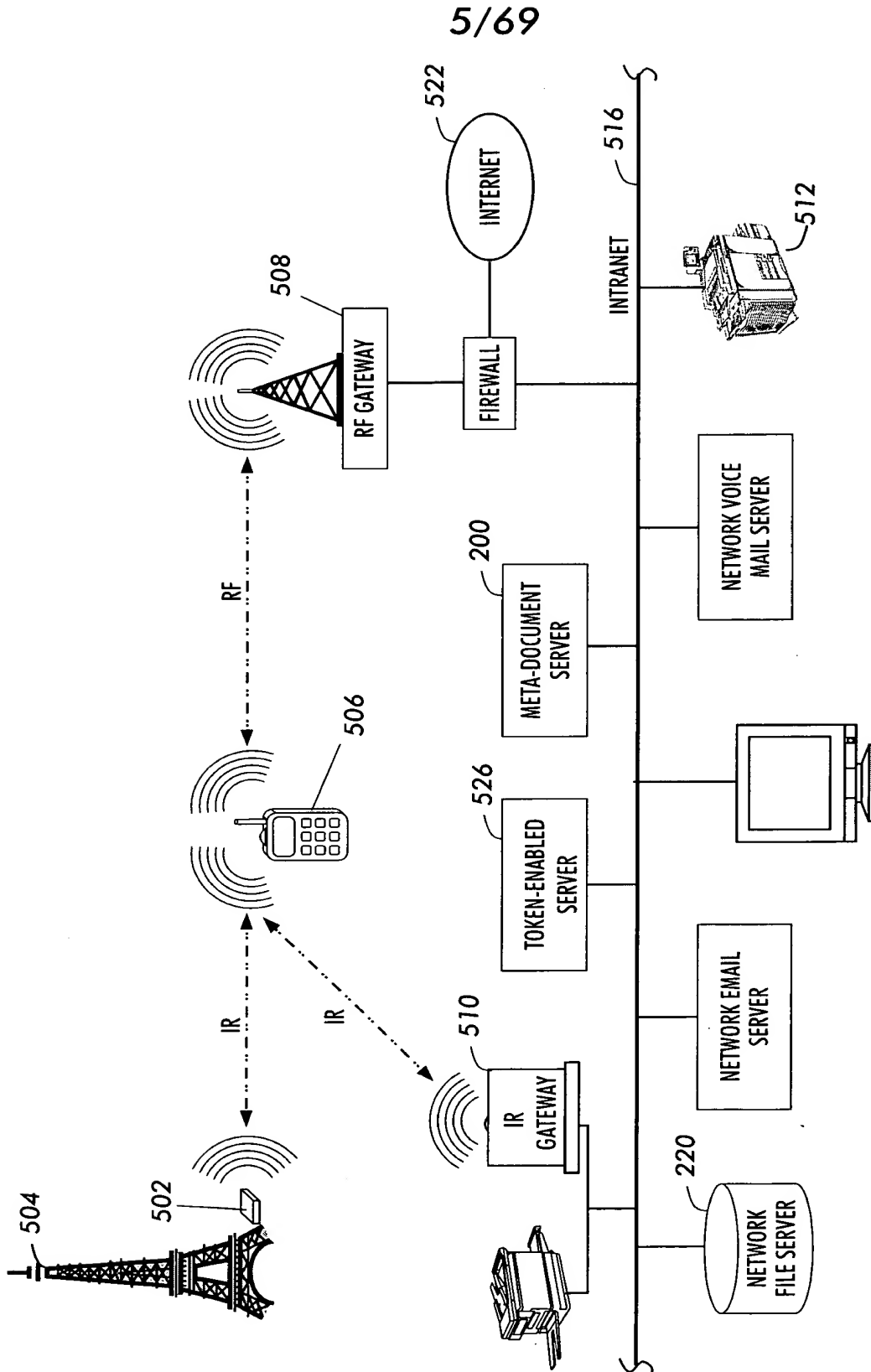


FIG. 5

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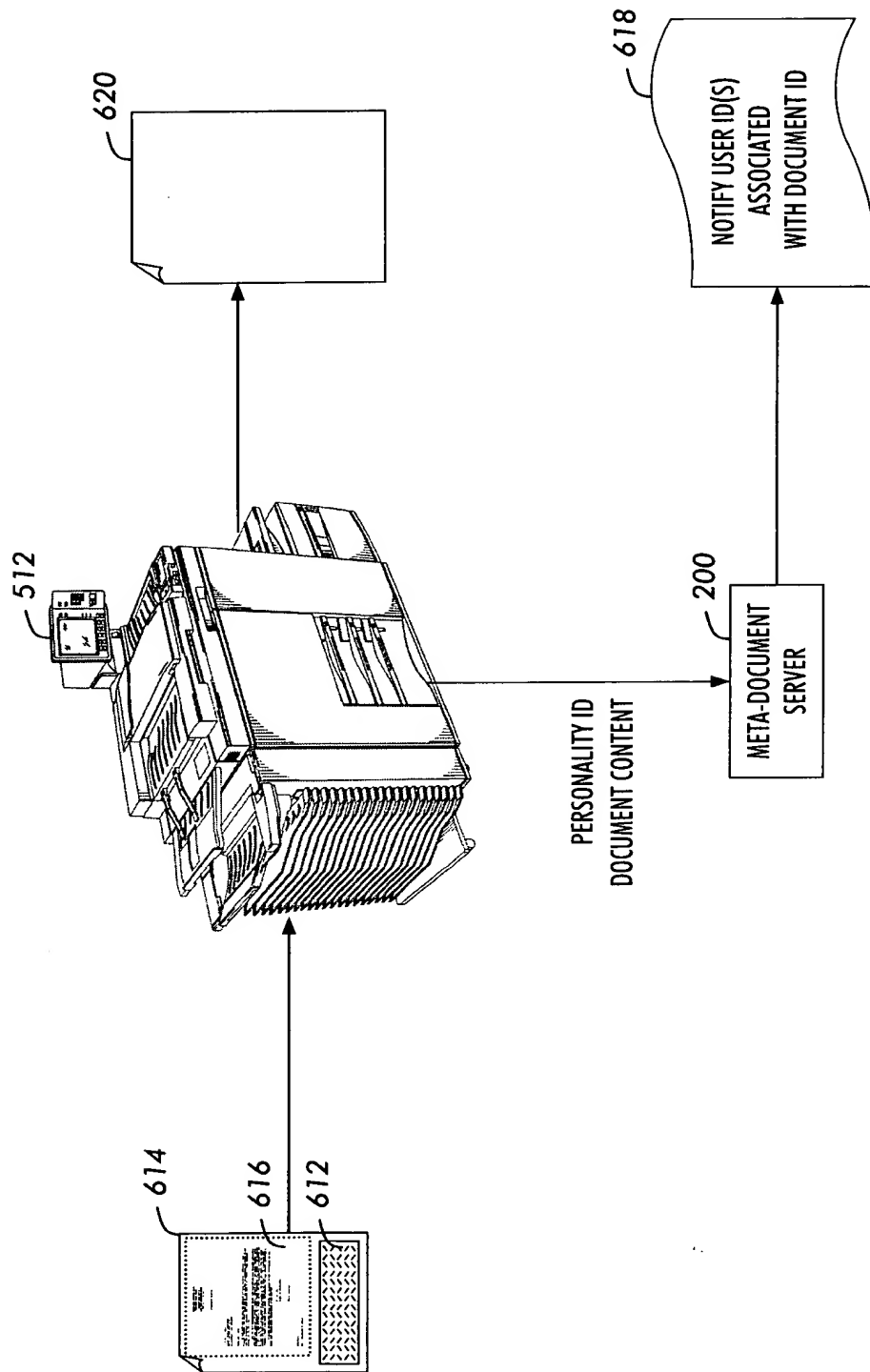


FIG. 6

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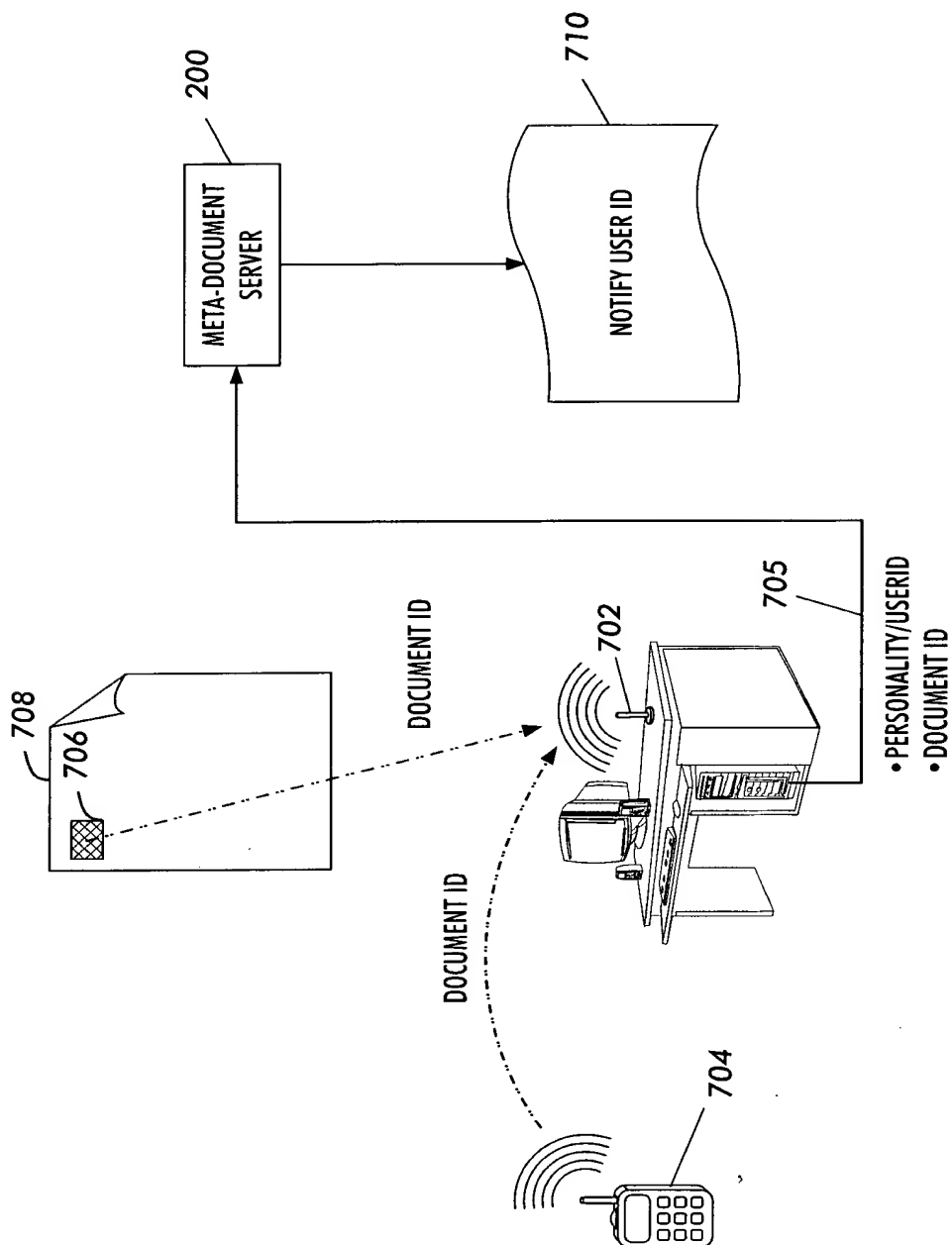



FIG. 7

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 **PRINT** ? X

**PRINTER**

NAME:  PROPERTIES

STATUS: IDLE

TYPE: XEROX 4517 POSTSCRIPT LEVEL 2

WHERE: TIMES.GRENOBLE.XRCE.XEROX.COM:PASSTHRU ☐ PRINT TO FILE

COMMENT: XEROX N2125 B&W DUPLEX - LE CHATEAU - 2ND FLOOR

**PAGE RANGE**

☒ ALL  
☐ CURRENT PAGE ☐ SELECTION  
☐ PAGES:

ENTER PAGE NUMBERS AND/OR PAGE RANGES  
SEPERATED BY COMMAS. FOR EXAMPLE 1,3,5-12

**COPIES**

NUMBER OF COPIES:  ? X

☒ COLLATE

**ENRICHMENT**

☒ PERSONALITY:  ? X ☐ SELECT A PERSONALITY FOR ME

**APPLY ENRICHMENT TO:**

☒ ALL  
☐ CURRENT PAGE ☐ SELECTION  
☐ PAGES:

**INSERT ENRICHMENT AS:**

☒ LINKS  
☐ CONTENT OPTIONS...

**PRINT WHAT:**  ? X **PAGES PER SHEET:**  ? X

**PRINT:**  ? X **SCALE TO PAPER SIZE:**  ? X

OPTIONS... OK CANCEL

FIG. 8

9/69

PRINT DOCUMENT PROPERTIES

LAYOUT PAPER/QUALITY ENRICHMENT

902 ☒ PERSONALITY: BUSINESS ☐ SELECT PERSONALITY FOR ME

PROVIDE ENRICHMENT BY:

- ☒ PRINTING WITH DOCUMENT
- ☐ STORING AT SERVER

WHEN STORING ENRICHMENT AT SERVER:

- ☒ EMAIL ME WHEN COMPLETED  
ADDRESS:
- ☐ DO NOT NOTIFY ME

904

INSERT ENRICHMENT AS:

- ☒ LINKS
- ☐ CONTENT

901

CAPTURE POINT:

- ☒ AT WORKSTATION 908
- ☐ AT PRINT SERVER

906

ADVANCED

OK CANCEL

FIG. 9

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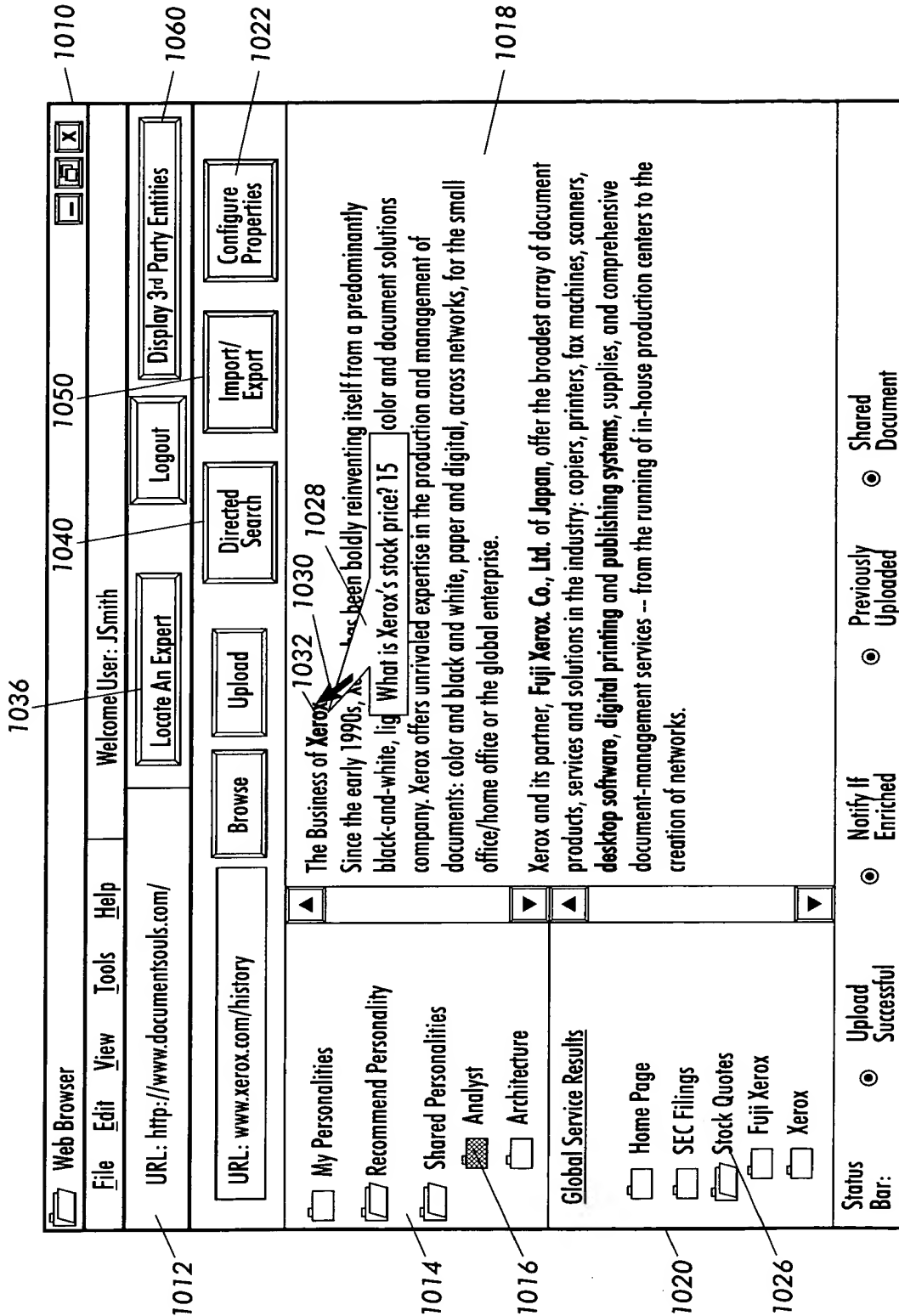
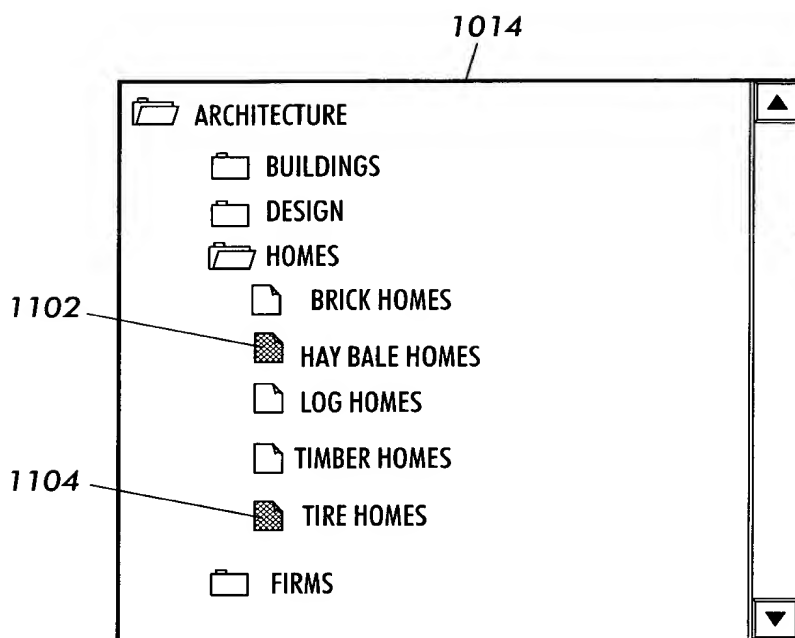


FIG. 10



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**FIG. 11**



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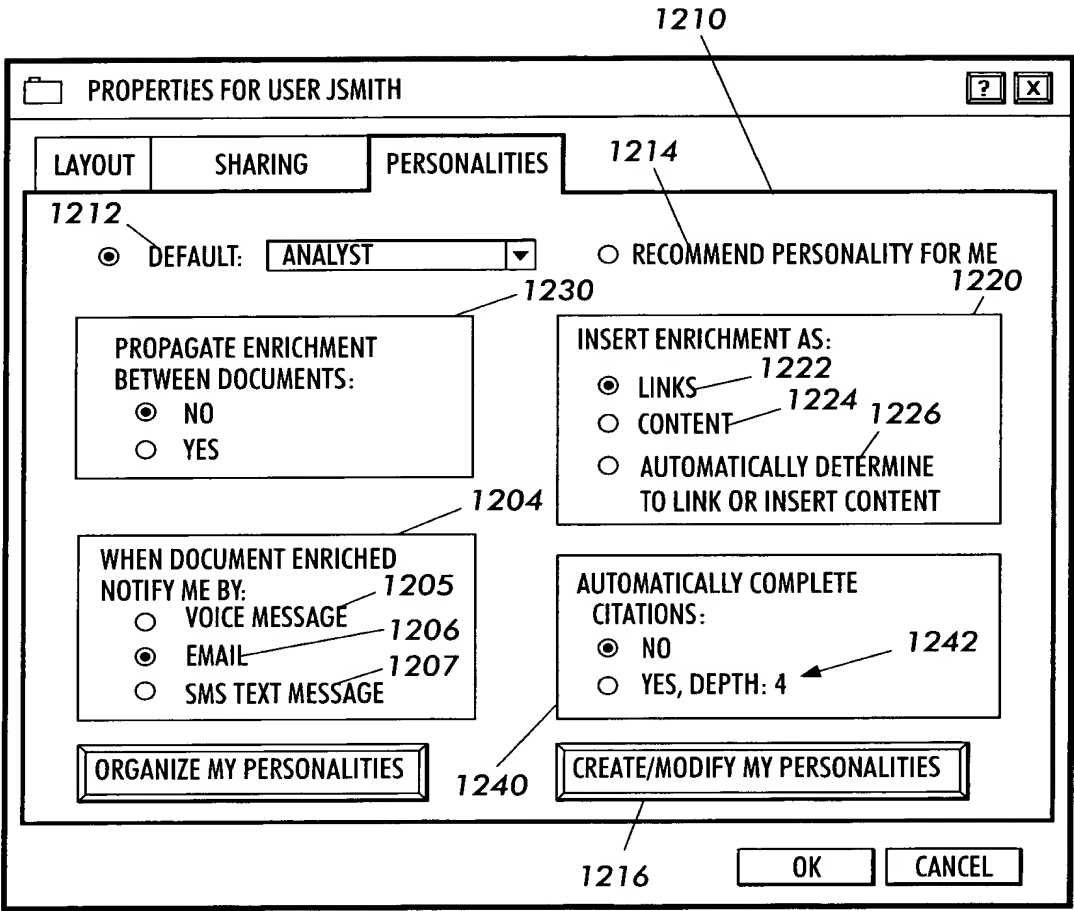


FIG. 12

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1310

CREATE/MODIFY A GROUP OF EXISTING PERSONALITIES

1312

LIST OF AVAILABLE PERSONALITIES

Name	Creation Date
Technology Watch in Computer Sciences	2001-03-16 14:08:06
Watch Business	2001-03-16 14:08:08
Watch Legal	2001-03-16 14:08:10
Watch Intellectual Property	2001-03-16 14:08:10
Scientific Watch in Medicine	2001-03-16 14:08:10

1314

LIST OF AVAILABLE BUSINESS SERVICES

those Services are classified by Service Categories, a ticked checkbox meaning that the according service is attached to the selected personality.

Click on this icon to view all available service categories

Search Engine

- luckygoogle People Google Lucky Result

Stock Quotes

- bloomberg Stock Quotes

1318

OK

CANCEL

FIG. 13

14/69

1318 SEARCH ENGINE ☐ ☐ 1400 1426 1412 1414 1430 1442 1440 1444 1450

1404	1422	1420	1408	1452	1451	1455	1453	1456	1454
SEL	NAME	ENTITY TYPE	ANNOTATE	DEPTH	PROVIDER	COST	QUERY	REFRESH	
<input checked="" type="checkbox"/>	COMPUTING	COMPUTING	ALWAYS	0	YAHOO	FREE	LINK	DAILY	
<input type="checkbox"/>	BIOLOGY	BIOLOGY	ALWAYS	0	GOOGLELUCKY	NULL	LINK	NEVER	
<input type="checkbox"/>	MEDICINE	MEDICINE	ALWAYS	0	ALTAVISTA	FEE	LINK	AUTO	
<input type="checkbox"/>	APPLY PAIRS OF ENTITIES AND IDENTIFY 3RD PARTY ENTITIES	COMPANIES	EXPERT	0	GOOGLELUCKY	NULL	CONTENT	NULL	
<input type="checkbox"/>	APPLY PAIRS OF ENTITIES USING GOOGLELUCKY	PRODUCTS	ALWAYS	2	NORTHERNLIGHTS	NULL	LINK	WEEKLY	
<input type="checkbox"/>	COUNTRIES	COUNTRIES	NOVICE	0	GOOGLELUCKY	FEE	CONTENT	UNTIL 2003	
<input type="checkbox"/>	ASTRONOMY	ASTRONOMY	ALWAYS	1	GOOGLE	NULL	LINK	MONTHLY	
<input checked="" type="checkbox"/>	PEOPLE	PEOPLE	ALWAYS	3	GOOGLE.PEOPLE	NULL	LINK	NULL	

1424 VIEW HIERARCHY SET DEPTH 1432

FIG. 14



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1502

The screenshot shows a software window titled "CREATE/MODIFY MY PERSONALITIES" with a standard Windows-style title bar containing a folder icon, the title, and help/question mark and close buttons. The window contains the following elements:

- A "NAME:" label followed by a "BROWSE" button and a text input field (labeled 1504).
- A vertical list of four radio buttons, each followed by a rectangular box:
  - The first radio button (selected) is followed by a box containing the text "CREATE/MODIFY A GROUP OF EXISTING PERSONALITIES" (labeled 1506).
  - The second radio button is followed by a box containing the text "USE SELECTED DOCUMENTS AND/OR FOLDERS TO CREATE A NEW PERSONALITY" (labeled 1508). Inside this box is a "BROWSE" button and a text input field (labeled 1509).
  - The third radio button is followed by a box containing the text "USE SELECTED FILE/WEBSITE TO CREATE A NEW PERSONALITY" (labeled 1510). Inside this box is a "BROWSE" button and a text input field.
  - The fourth radio button is followed by a box containing the text "CREATE QUESTION FORM USING PERSONALITY LEXICONS" (labeled 1520). Inside this box is a "QUESTION:" label and a text input field.
- A "Hint:" label followed by a text input field (labeled 1514).
- A "KNOWLEDGE LEVEL:" label followed by two radio buttons: "NOVICE" (selected) and "EXPERT" (labeled 1516).
- At the bottom right, there are "OK" and "CANCEL" buttons (labeled 1512).

FIG. 15



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1600

CREATE/MODIFY A GROUP OF EXISTING PERSONALITIES

NAME: TECHNOLOGY WATCH IN ORGANIC CHEMISTRY

OPERATION:

☒ MERGE 1602

☐ SUBTRACT 1604

PERSONALITY A ▼

WITH/FROM

PERSONALITY B ▼

OK CANCEL

FIG. 16

17/69

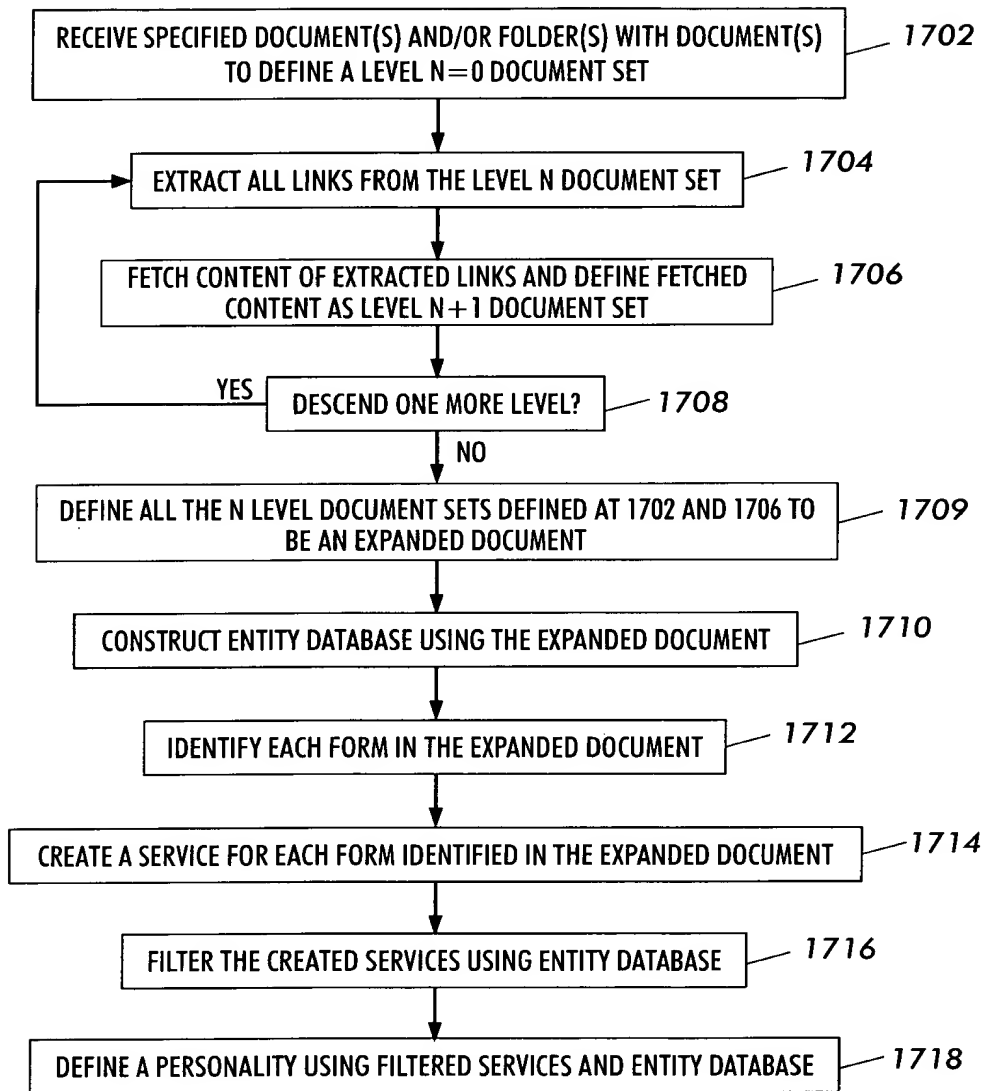


FIG. 17

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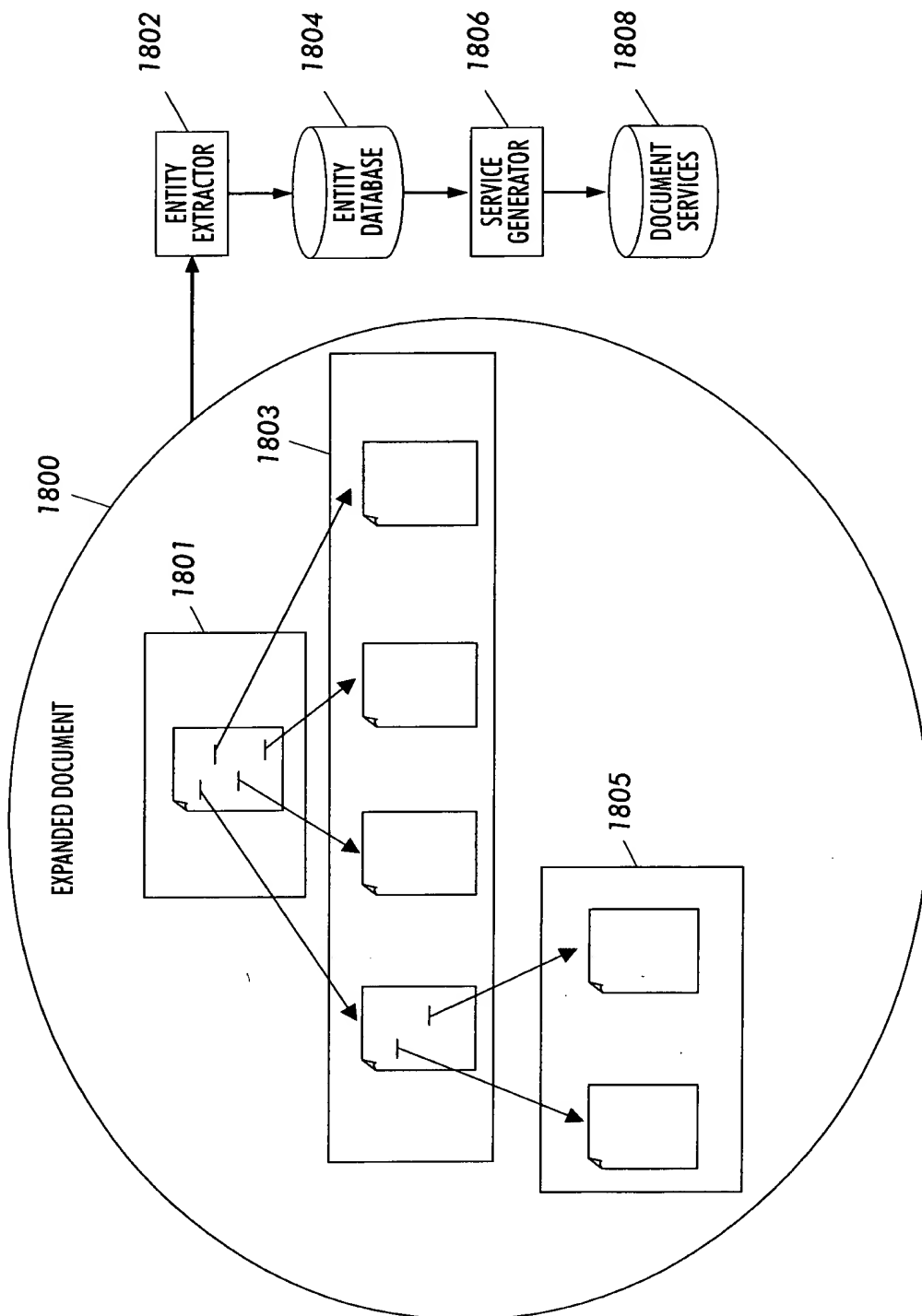


FIG. 18

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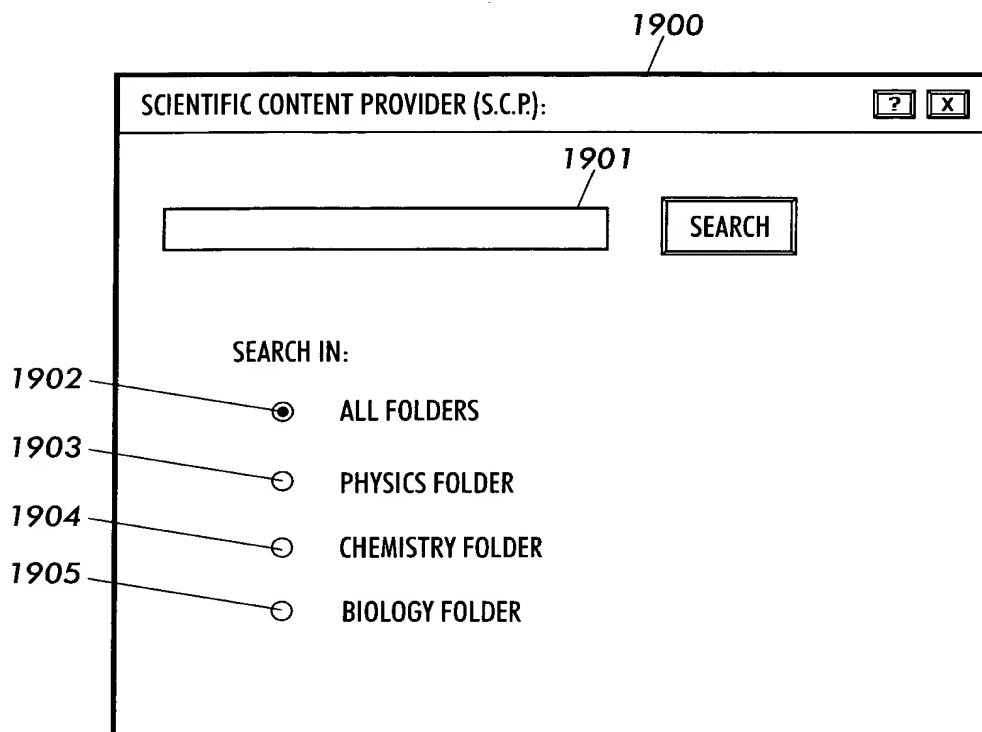


FIG. 19



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SCIENTIFIC SEARCH <input type="checkbox"/> <input type="checkbox"/>									
SEL	NAME	ENTITY TYPE	ANNOTATE	DEPTH	PROVIDER	COST	QUERY	REFRESH	
<input checked="" type="checkbox"/>	ALL FOLDERS RESULT OF SCIENTIFIC CONTENT PROVIDER	STANDARD	ALWAYS	0	S. C. P.	FREE	CONTENT	NULL	
<input type="checkbox"/>	PHYSICS RESULT OF SCIENTIFIC CONTENT PROVIDER	PHYSICS	ALWAYS	0	S. C. P.	FREE	CONTENT	NULL	
<input type="checkbox"/>	CHEMISTRY RESULT OF SCIENTIFIC CONTENT PROVIDER	CHEMISTRY	ALWAYS	0	S. C. P.	FREE	CONTENT	NULL	
<input type="checkbox"/>	BIOLOGY RESULT OF SCIENTIFIC CONTENT PROVIDER	BIOLOGY	ALWAYS	0	S. C. P.	FREE	CONTENT	NULL	

2002

2004

FIG. 20

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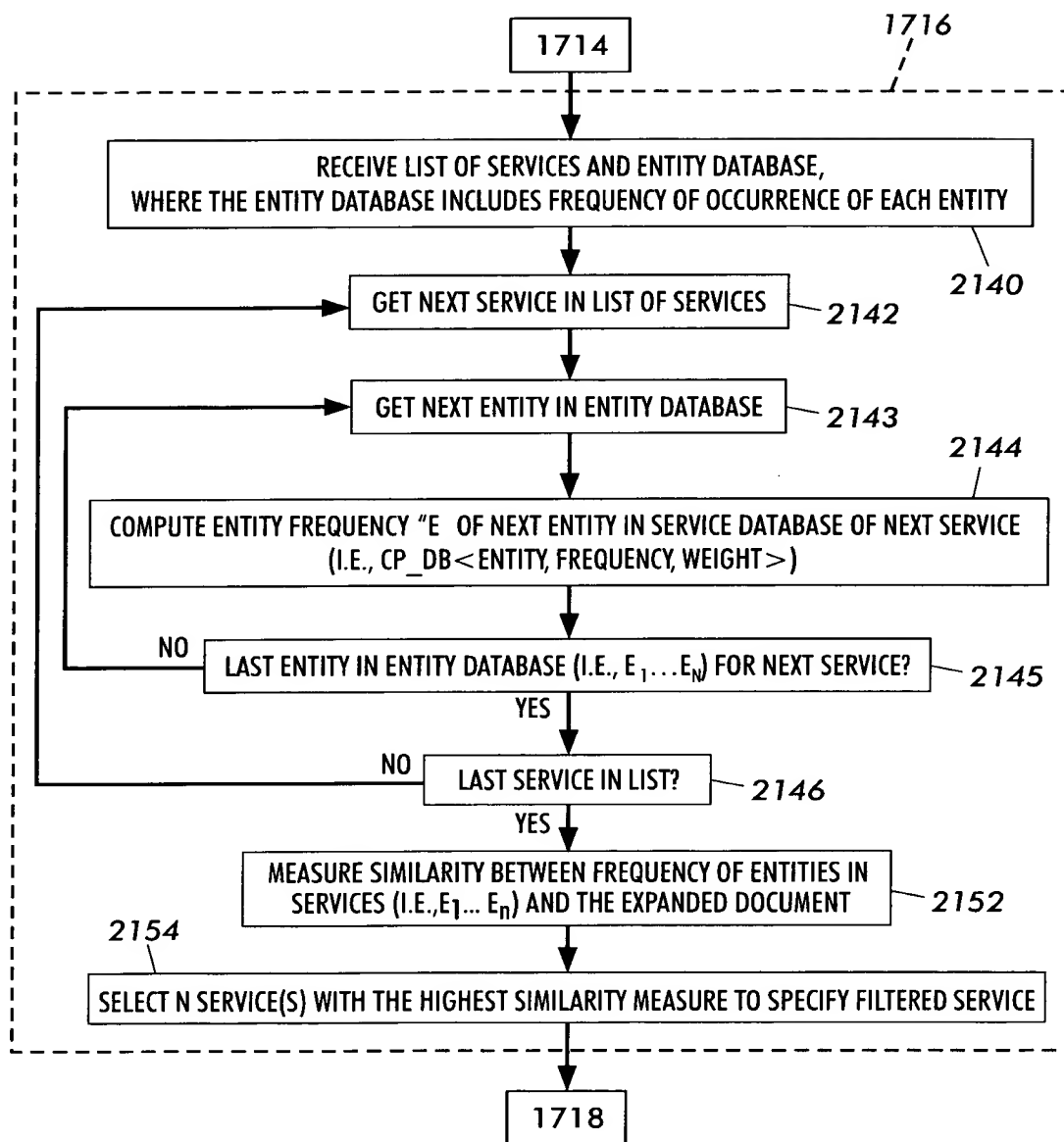
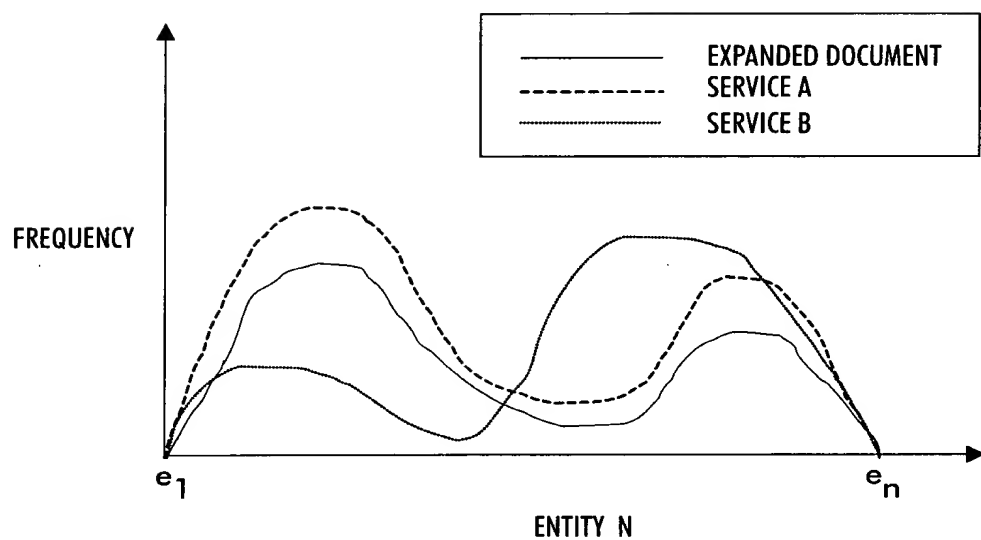


FIG. 21



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**FIG. 22**

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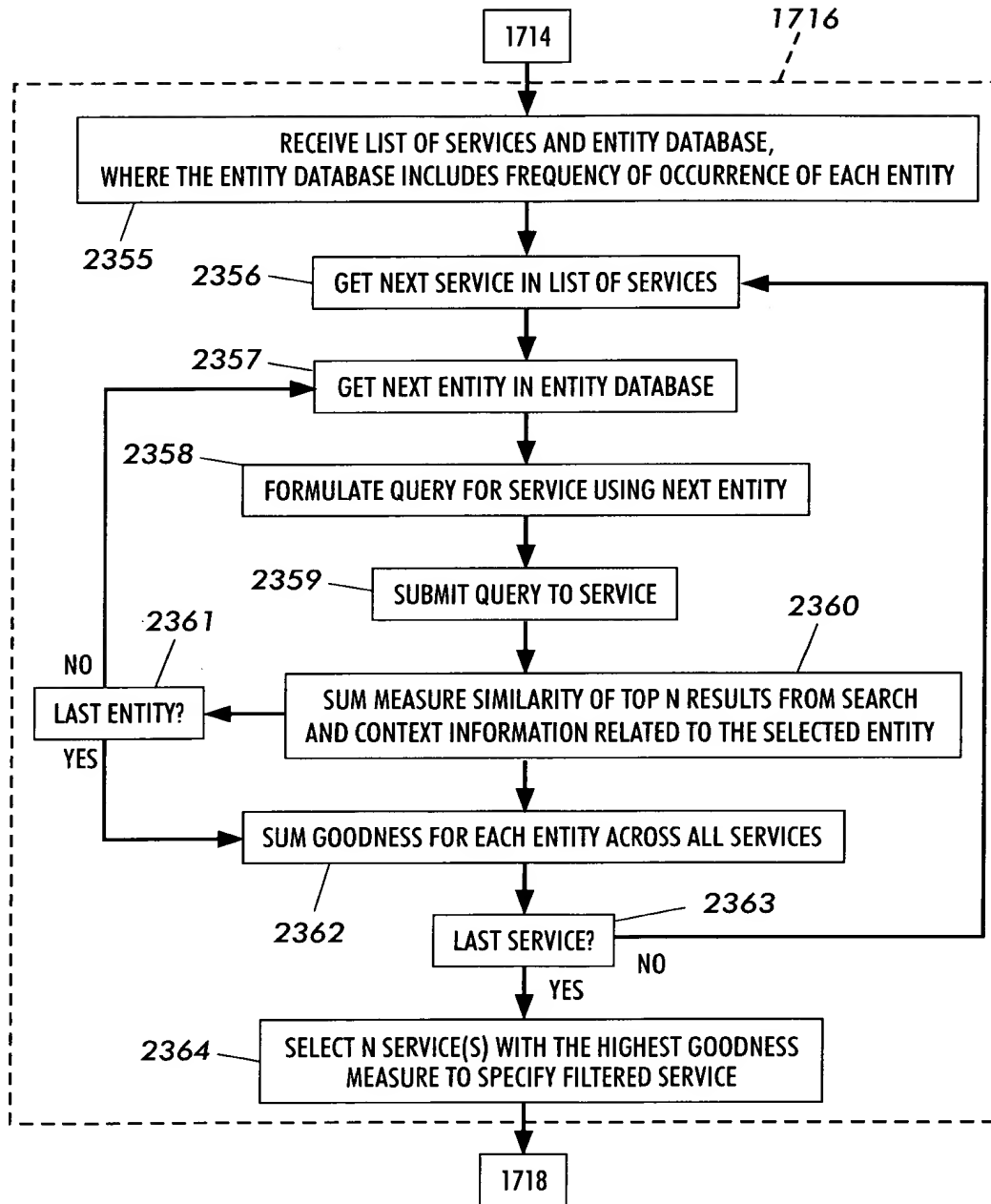


FIG. 23

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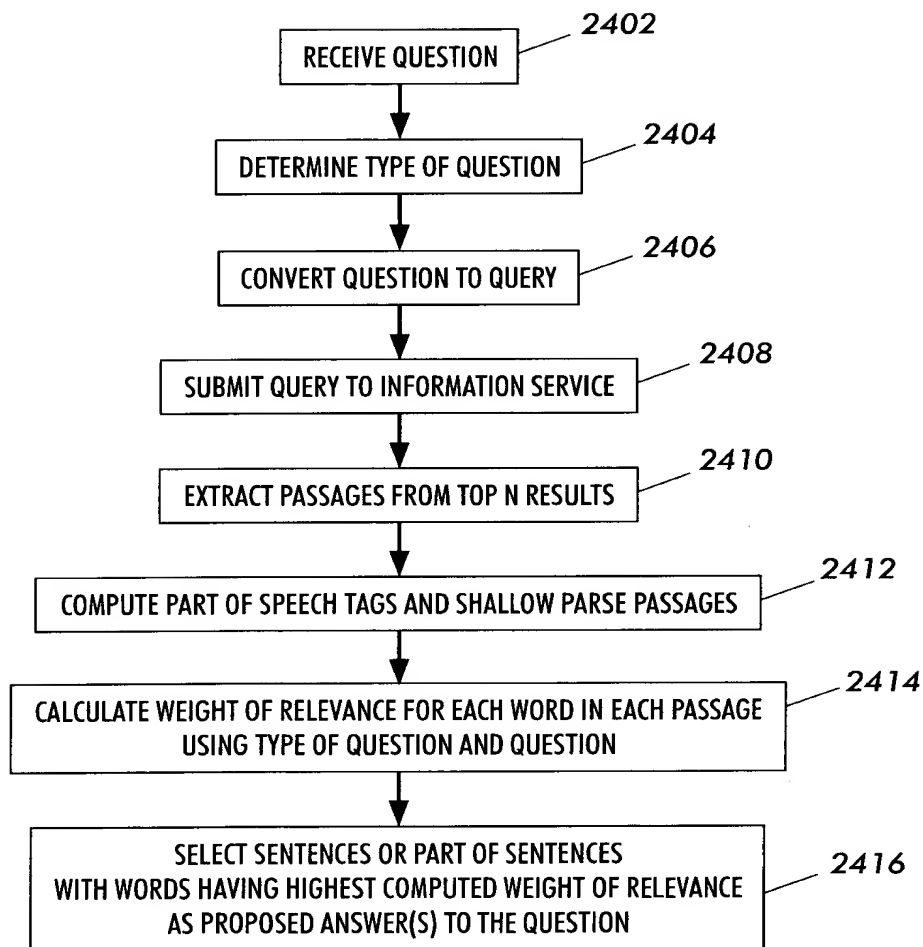


FIG. 24

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2502

E-LEARNING SERVICES ASSOCIATED WITH E-LEARNING PERSONALITY	
SEL	
<input checked="" type="checkbox"/>	LINK WORDS OR MULTIWORD EXPRESSIONS FOUND IN THE DOCUMENT TO THEIR DEFINITIONS
<input type="checkbox"/>	LINK WORDS OR MULTIWORD EXPRESSIONS FOUND IN THE DOCUMENT TO THEIR TRANSLATIONS
<input type="checkbox"/>	LINK EACH TEXT UNIT (I.E., DOCUMENT, PARAGRAPH, PHRASE, WORD) TO A TUTORIAL CONCERNING EACH TEXT UNIT
<input type="checkbox"/>	LINK EACH TEXT UNIT (I.E., DOCUMENT, PARAGRAPH, PHRASE, WORD) TO AN EXPERT CONCERNING IDENTIFIED SUBJECTS
<input type="checkbox"/>	LINK EACH TEXT UNIT (I.E., DOCUMENT, PARAGRAPH, PHRASE, WORD) TO AN INTERACTIVE COURSE ABOUT IDENTIFIED SUBJECTS
<input checked="" type="checkbox"/>	LINK EACH TEXT UNIT (I.E., DOCUMENT, PARAGRAPH, PHRASE, WORD) TO A LIST OF REAL WORLD CLASSES ABOUT IDENTIFIED SUBJECTS
<input checked="" type="checkbox"/>	LINK TEXT UNITS TO (I.E., DOCUMENT, PARAGRAPH, PHRASE, WORD) LEARNING RESOURCES CONCERNING EACH TEXT UNITS

FIG. 25

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2602

LANGUAGE LEARNING SERVICES ASSOCIATED WITH LANGUAGE LEARNING PERSONALITY	
SEL	
<input checked="" type="checkbox"/>	LINK WORDS OR MULTIWORD EXPRESSIONS FOUND IN THE DOCUMENT TO THEIR DEFINITIONS
<input type="checkbox"/>	LINK WORDS OR MULTIWORD EXPRESSIONS FOUND IN THE DOCUMENT TO THEIR TRANSLATIONS
<input type="checkbox"/>	LINK EACH SENTENCE, OR PHRASE, TO A GRAMMATICAL DESCRIPTION OF THE STRUCTURE OF THE SENTENCE OR PHRASE
<input type="checkbox"/>	LINK EACH WORD, MULTIWORD EXPRESSION, PHRASE OR SENTENCE TO OTHER INSTANCES OF THE SAME IN DIFFERENT CONTEXTS FROM THE PRESENT
<input type="checkbox"/>	LINK EACH WORD, MULTIWORD EXPRESSION, PHRASE OR SENTENCE TO ONE OR MORE INTERACTIVE GRAMMAR EXERCISES CONCERNING THAT ELEMENT
<input checked="" type="checkbox"/>	LINK EACH TEXT UNIT (I.E., DOCUMENT, PARAGRAPH, PHRASE, WORD) TO A LIST OF REAL WORLD CLASSES ABOUT IDENTIFIED LANGUAGE
<input checked="" type="checkbox"/>	LINK TEXT UNITS TO (I.E., DOCUMENT, PARAGRAPH, PHRASE, WORD) LANGUAGE LEARNING RESOURCES CONCERNING EACH TEXT UNITS

FIG. 26





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2710

STOCK QUOTE OPTIONS

2718 2720

PROPERTIES

UPDATE FREQUENCY: EVERYDAY ▼

INSERT INFORMATION AS:

2714  ▼ ☐ LINK ☒ CONTENT 2716  ▼ ☐ DETERMINE AUTOMATICALLY 2724

APPLY SERVICE BEHAVIOR TO

☐ ALL DOCUMENTS 2712 ☒ CURRENT DOCUMENT ☐ SELECTION ONLY

OK CANCEL

FIG. 27

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2800

ANNOTATE PROPERTY

ANNOTATE ENTITIES WHEN:

☐ ALWAYS

☒ EXPERT MODE:

☐ NOVICE MODE:

CHANGE REFERENCE

ANNOTATE ONLY THOSE ENTITIES THAT OCCUR WITH A FREQUENCY LESS THAN: 4 IN THE REFERENCE DOCUMENT(S) AND/OR DATABASE(S) AT WWW.XRCE.XEROX.COM/DB/EXPERT.

ANNOTATE ONLY THOSE ENTITIES THAT OCCUR WITH A FREQUENCY GREATER THAN: 20 IN THE REFERENCE DOCUMENT(S) AND/OR DATABASE(S) AT WWW.XRCE.XEROX.COM/DB/NOVICE.

AND

ANNOTATE ENTITY WHEN IT APPEARS IN DOCUMENT CONTENT WITH A FREQUENCY GREATER THAN: 4.

OK CANCEL

FIG. 28

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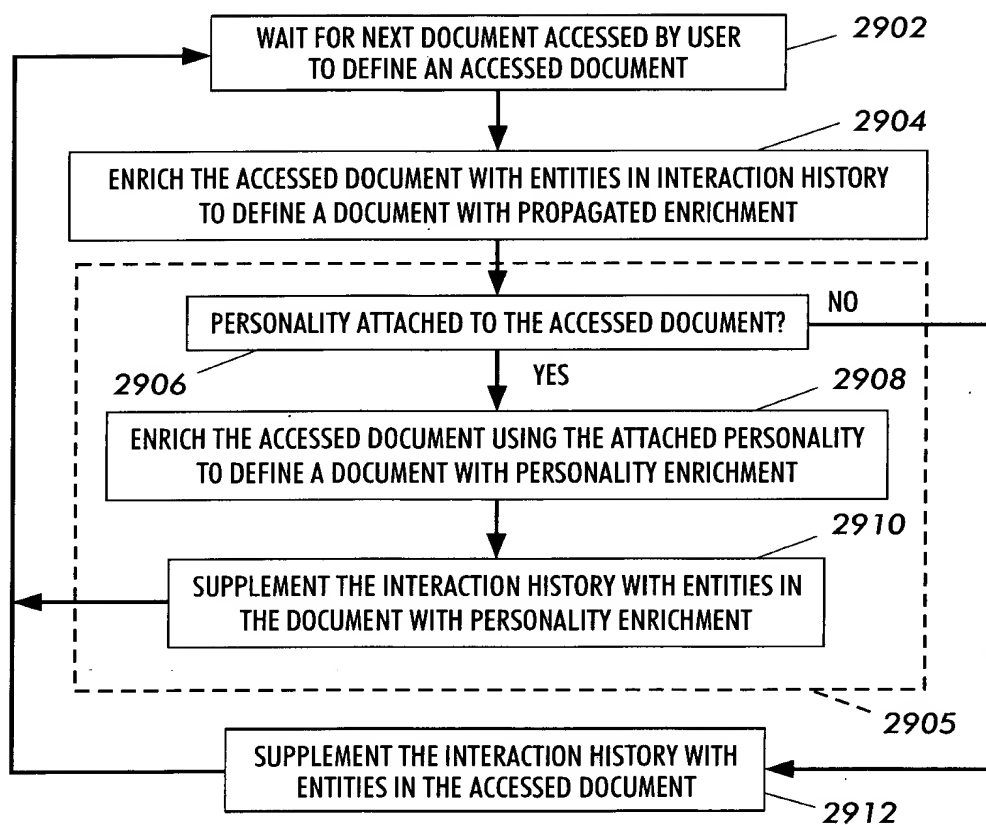


FIG. 29

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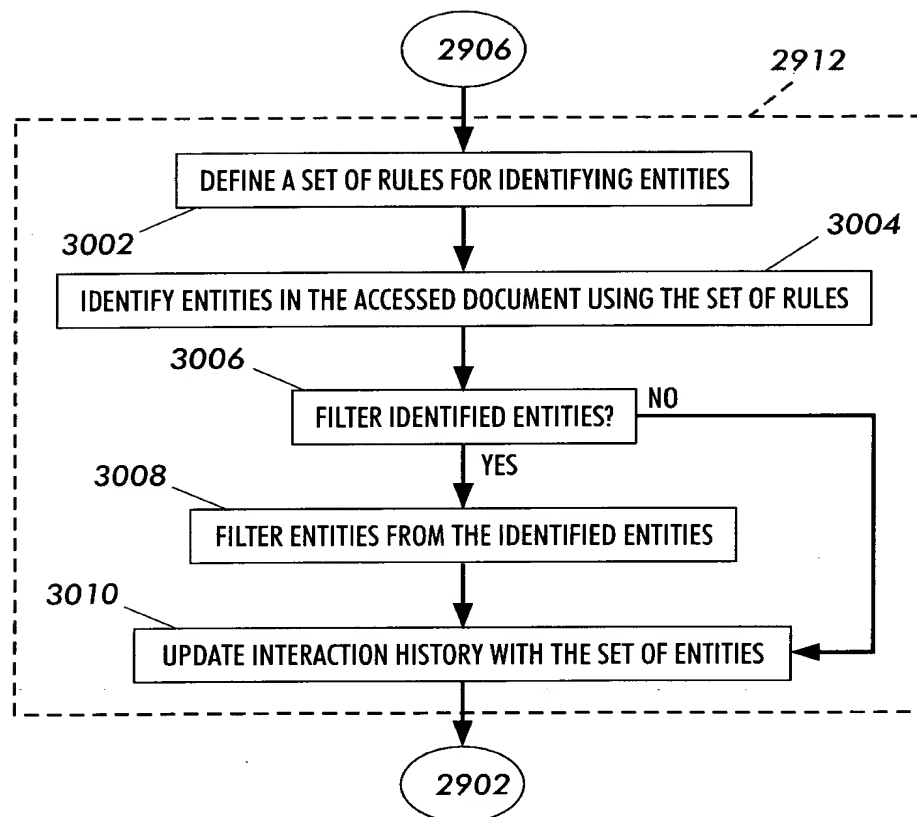


FIG. 30

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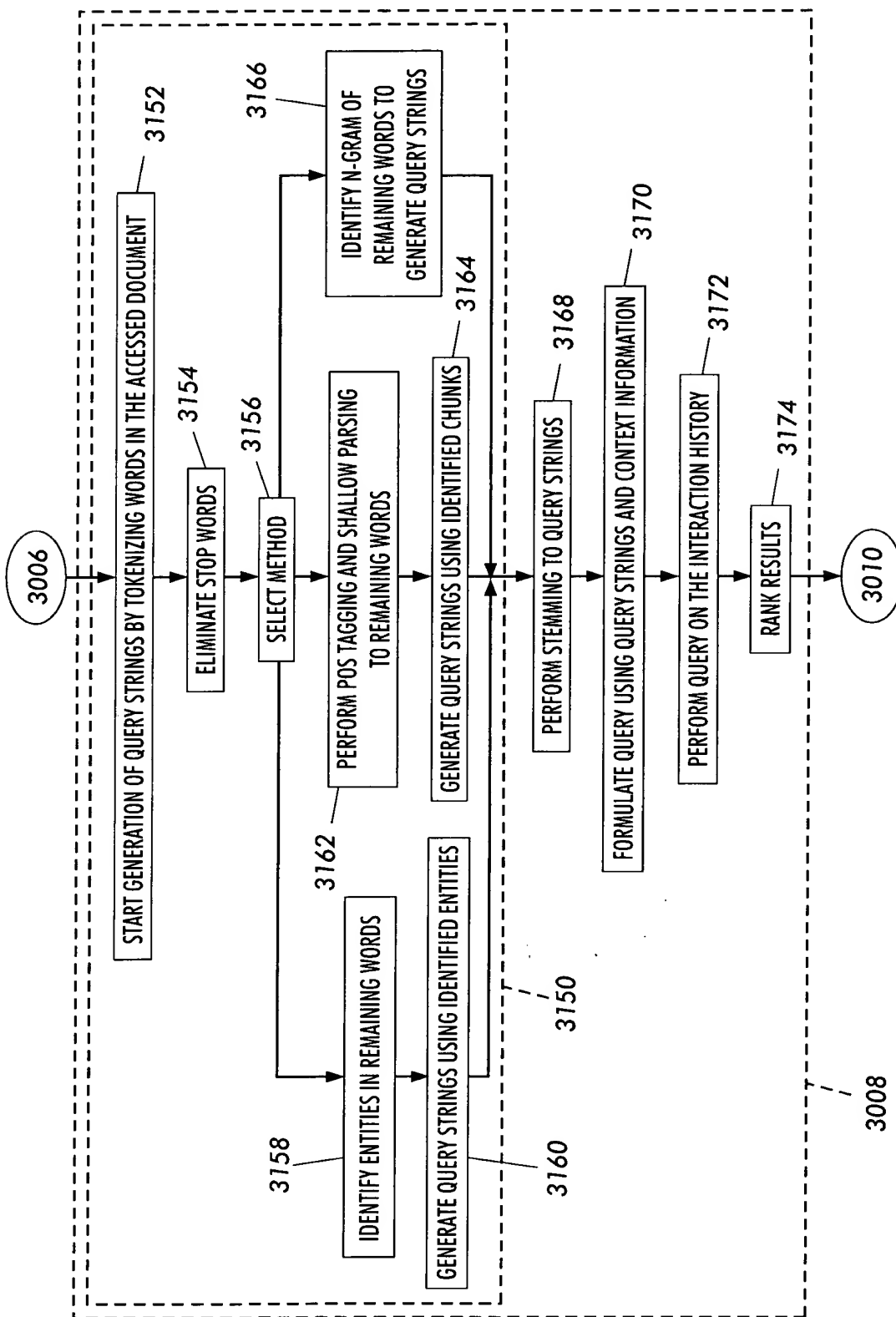


FIG. 31

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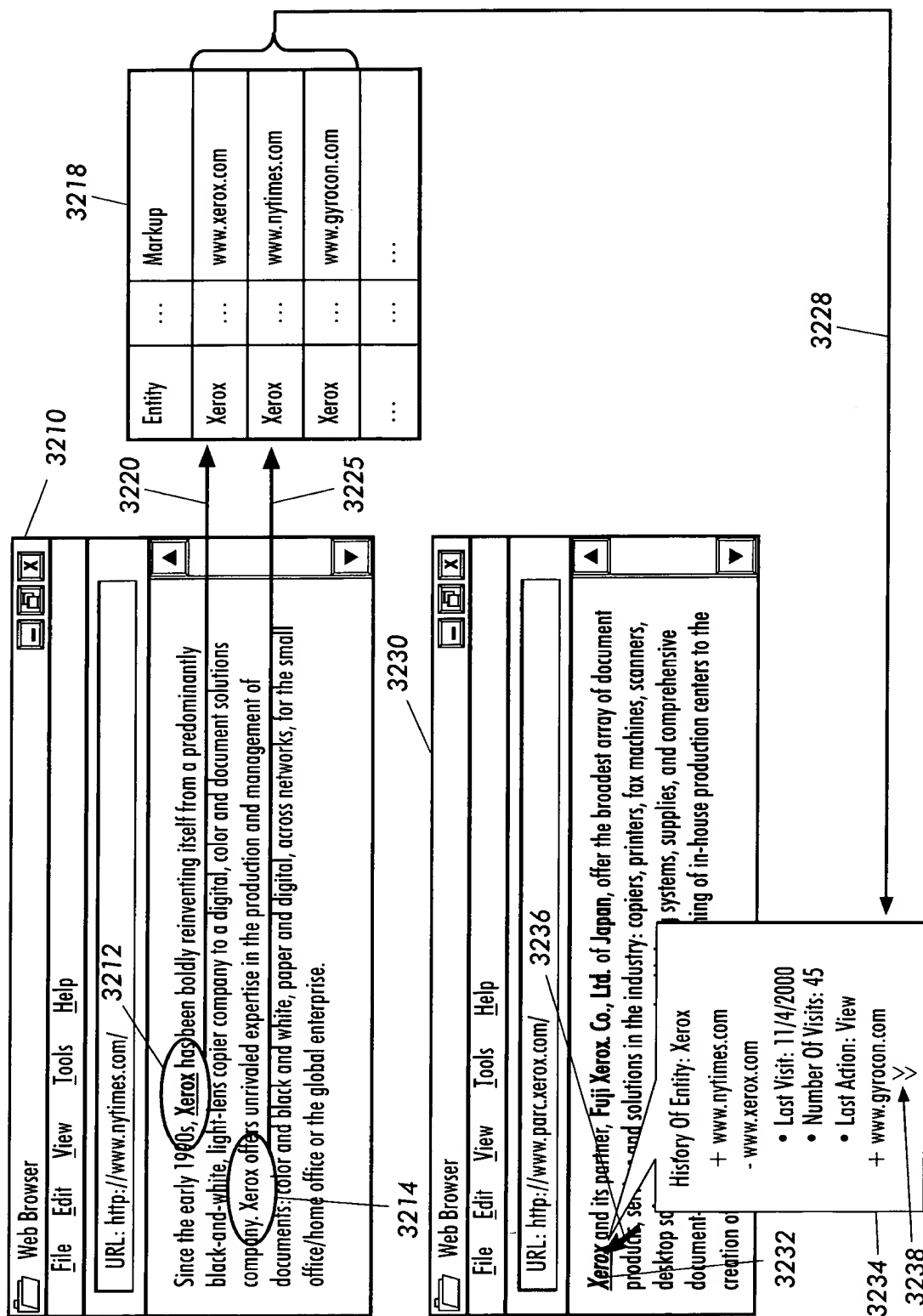


FIG. 32

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3218

ENTITY	ENTITY TYPE	VISITS	LAST VISIT	ACTION LIST	DMOZ CATEGORY	LOCATION	POS	MARKUP
XEROX	BUSINESS	45	11/4/2000	VIEW (43), PRINT(2)	BUSINESS	40	NOUN	WWW.XEROX.COM
XEROX	BUSINESS	1	5/1/2001	VIEW(1)	FINANCE	689	NOUN	WWW.NYTIMES.COM
XEROX	BUSINESS	4	2/22/2001	EMAIL(1), VIEW(3)	COMPUTER	343	NOUN	WWW.GYROCON.COM
...	...	...	...	...	...	...	...	...

FIG. 33

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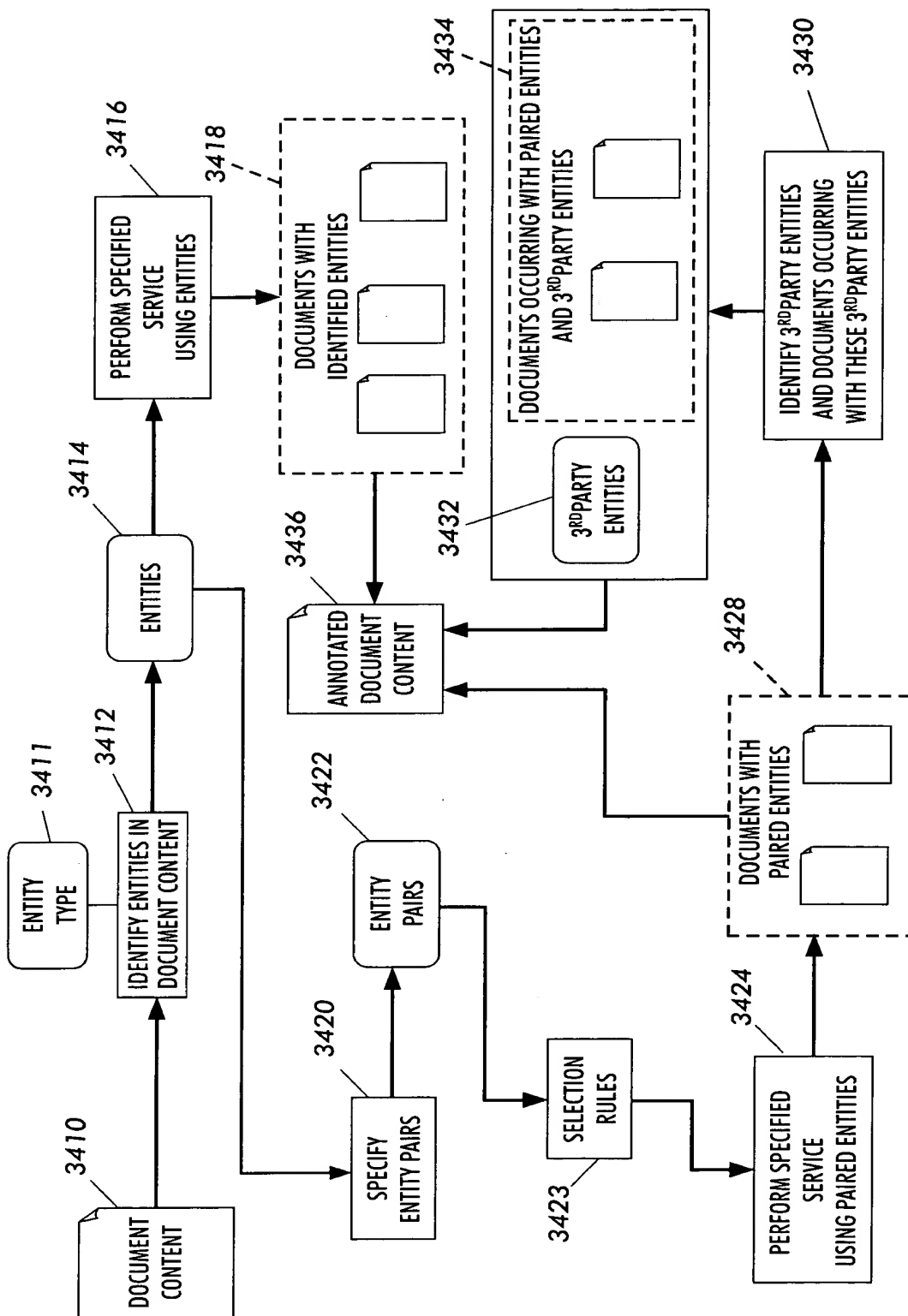
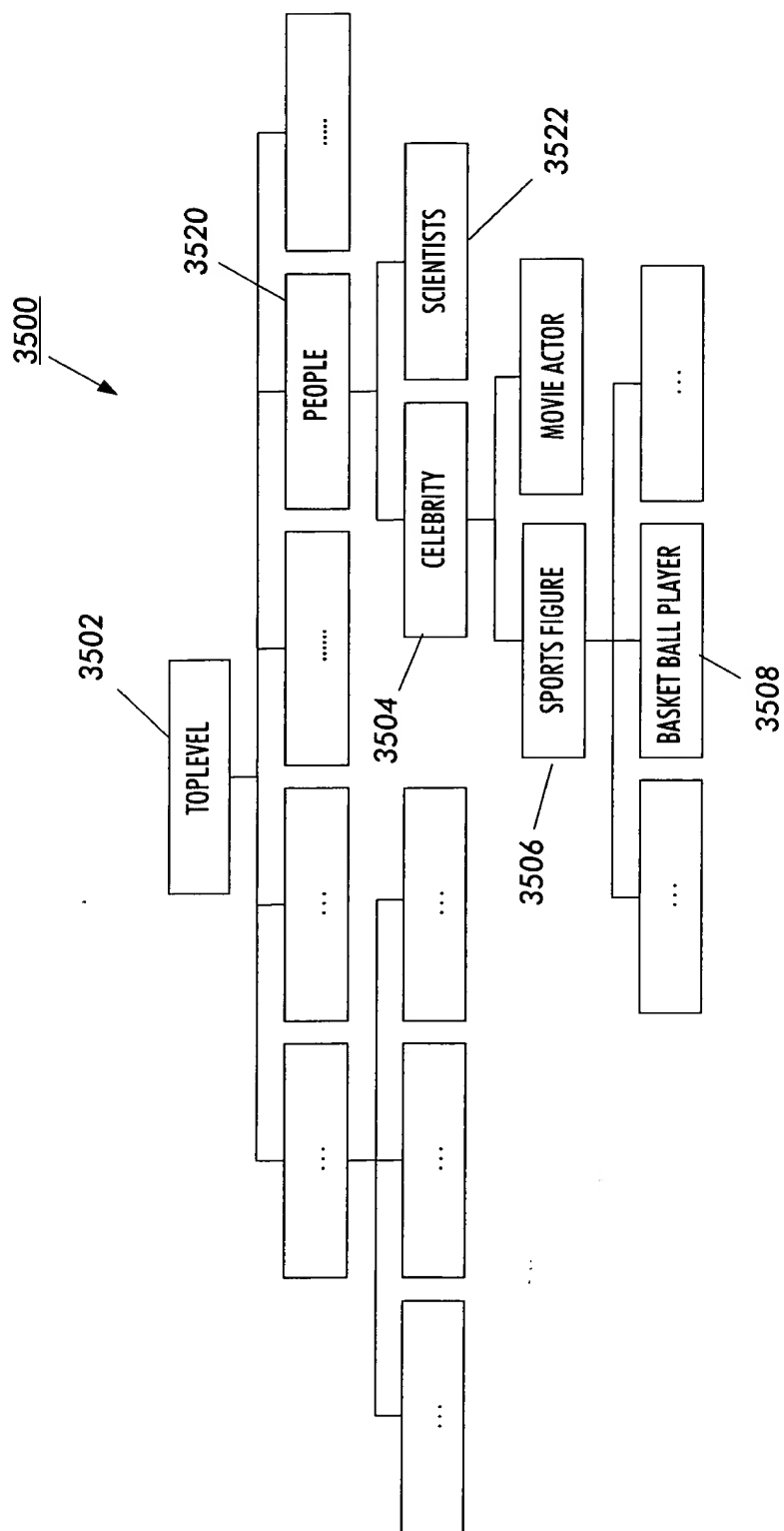


FIG. 34

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**FIG. 35**

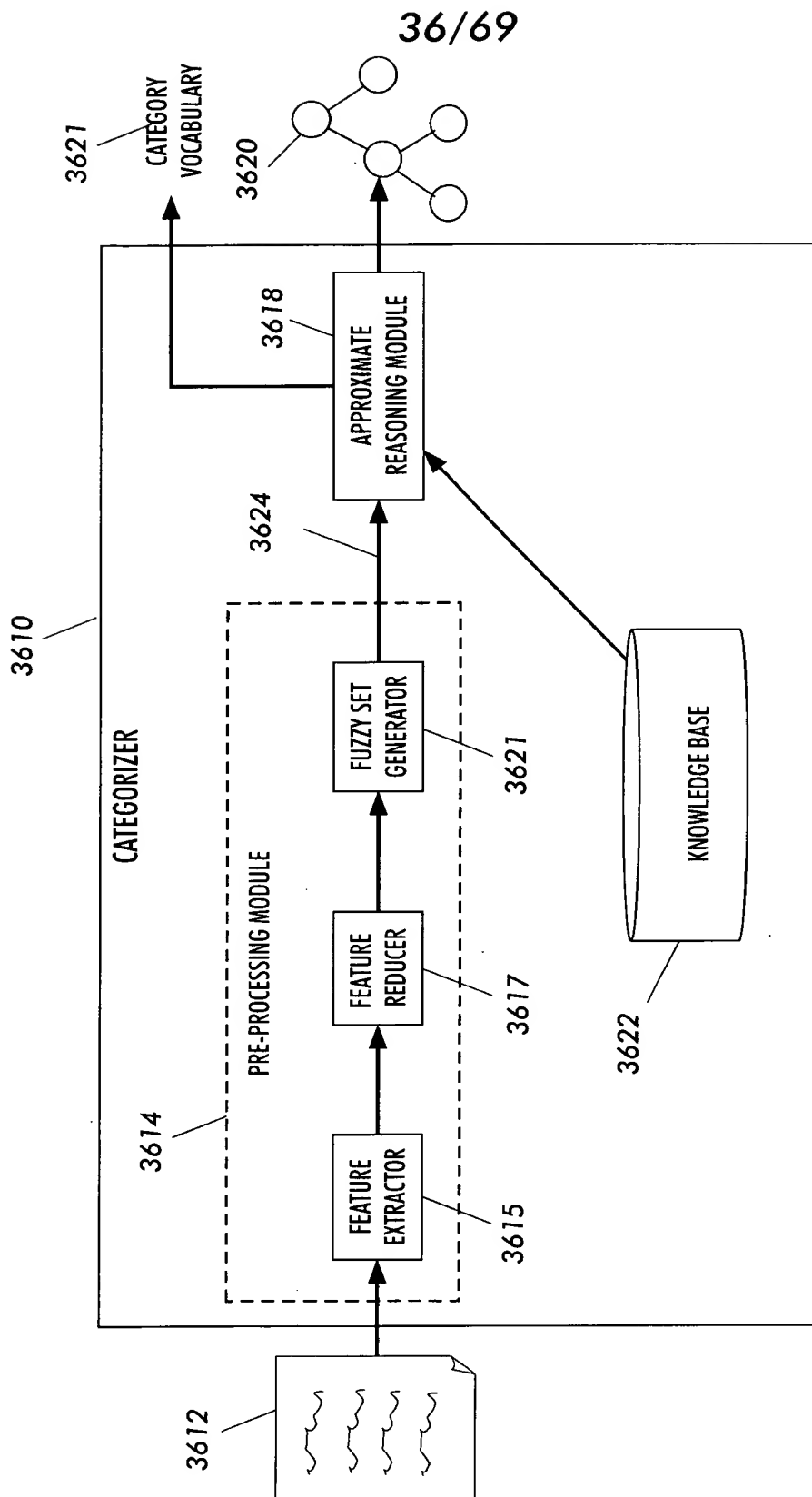


FIG. 36

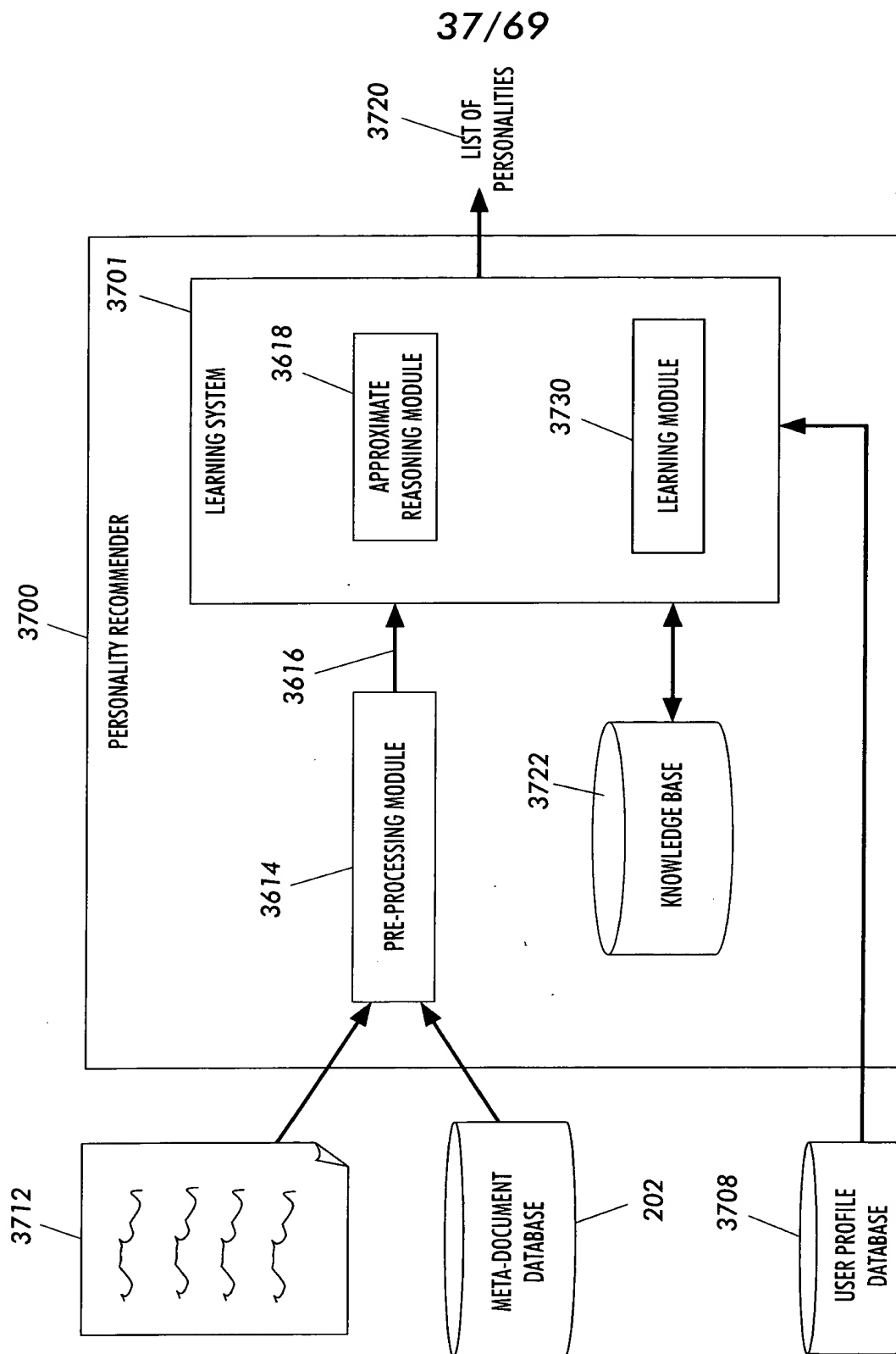


FIG. 37

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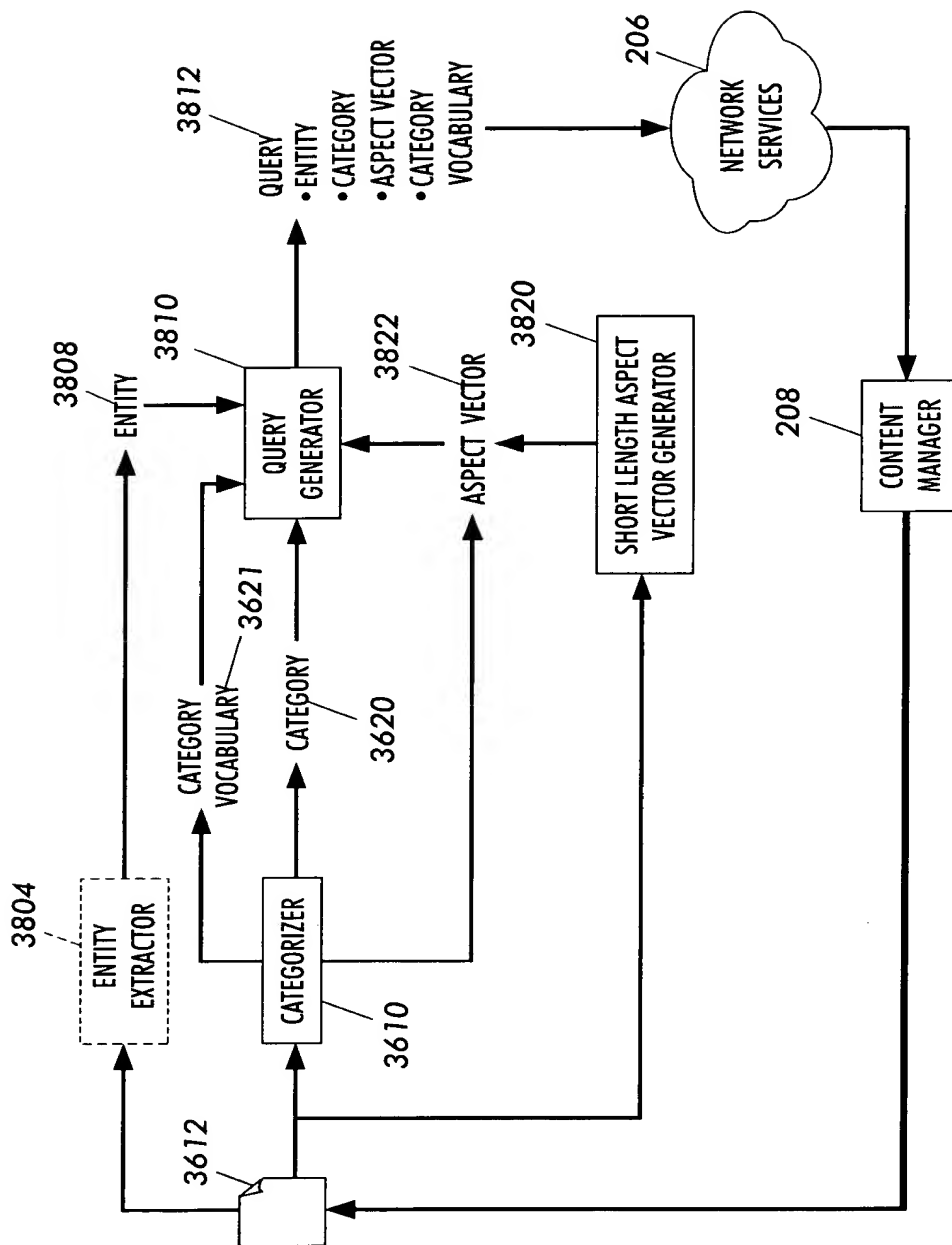


FIG. 38

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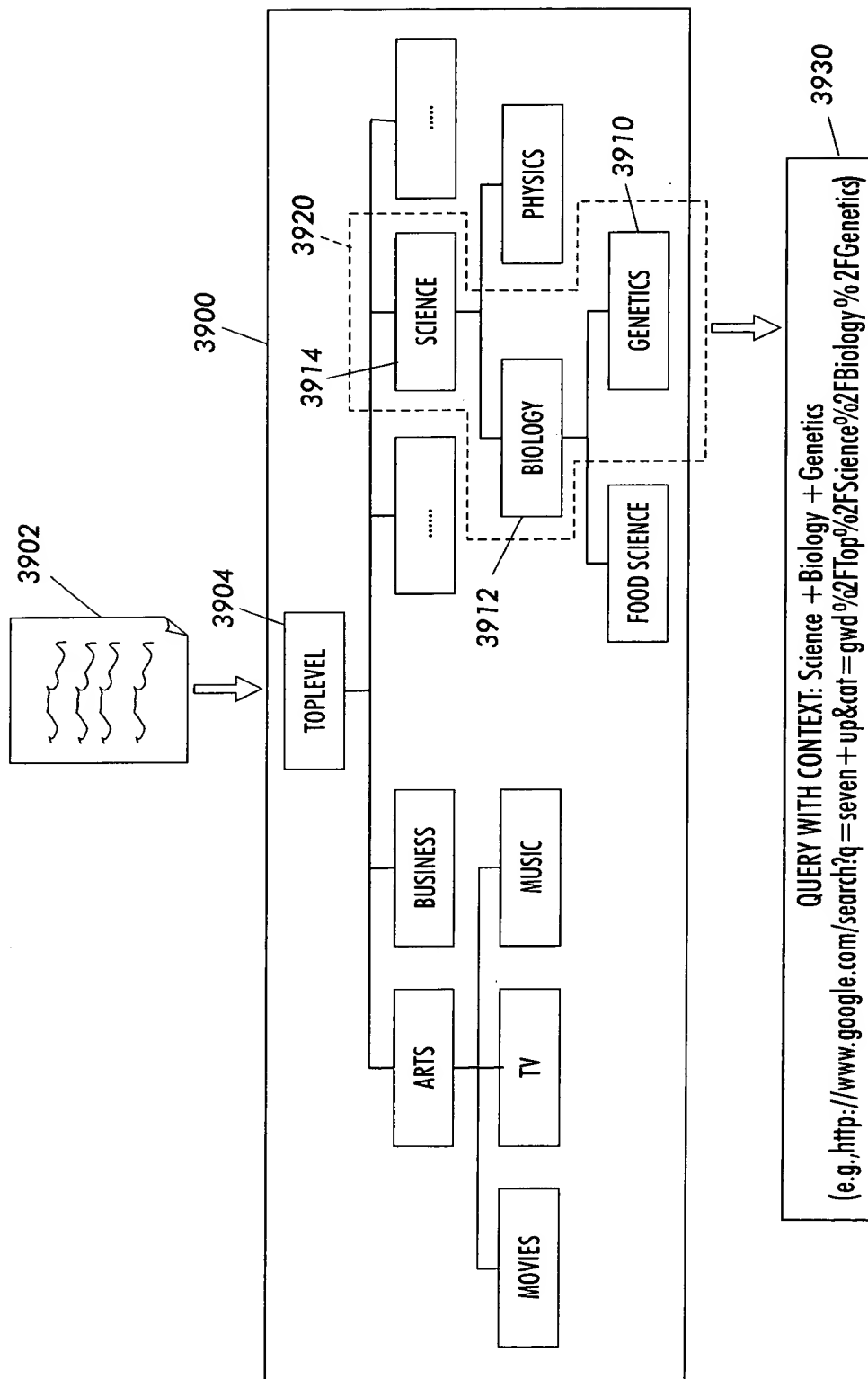


FIG. 39

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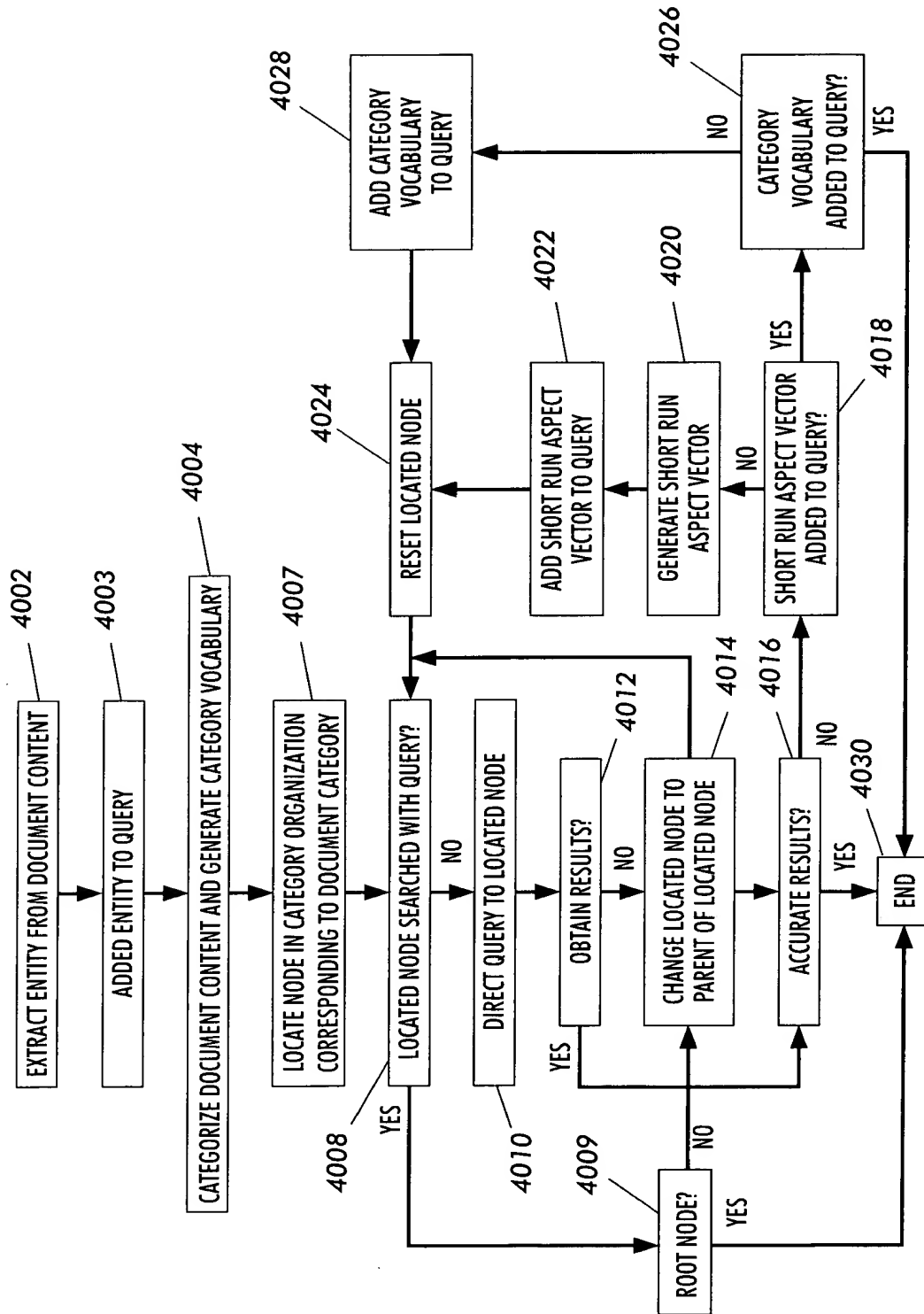


FIG. 40

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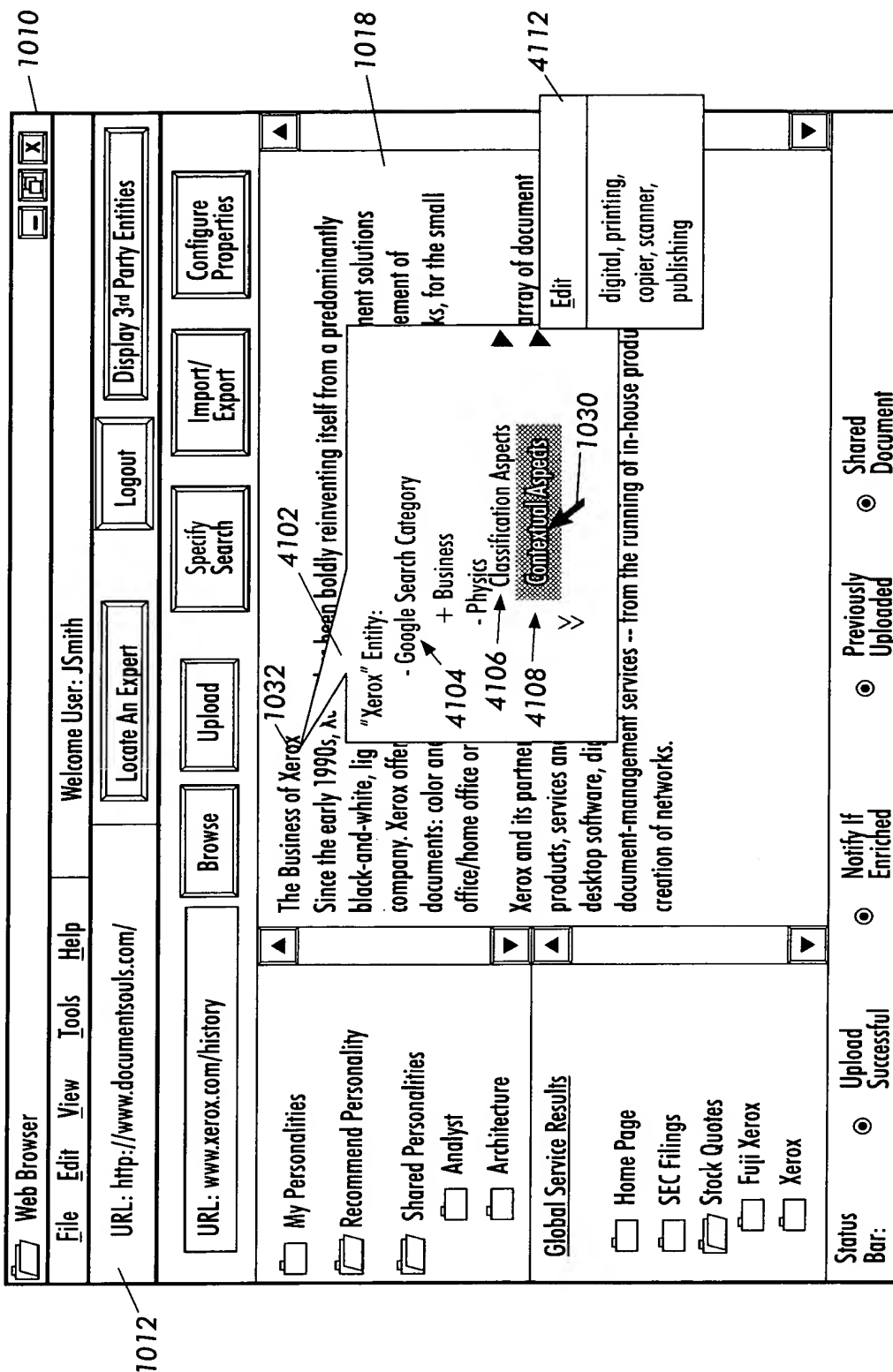


FIG. 41

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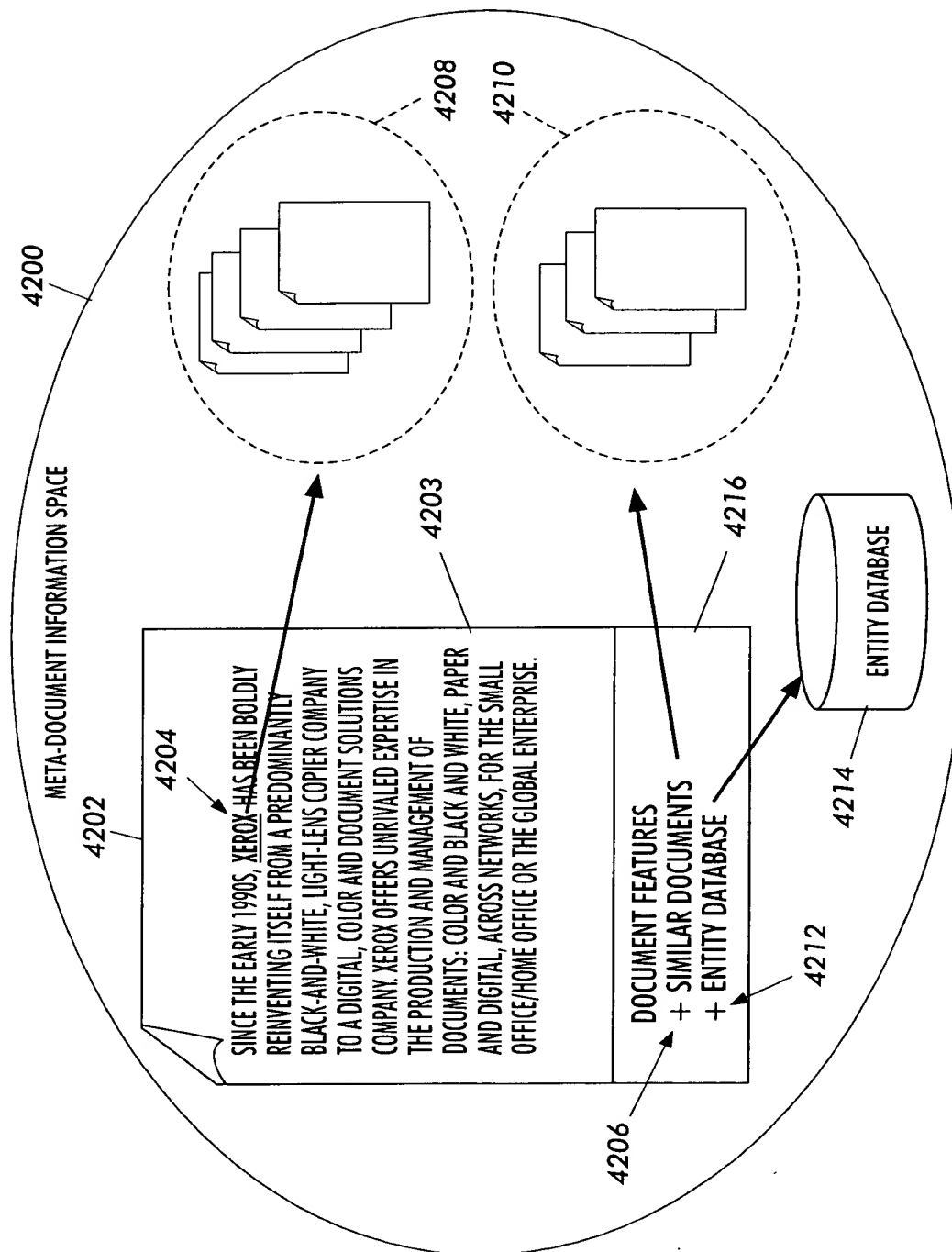


FIG. 42

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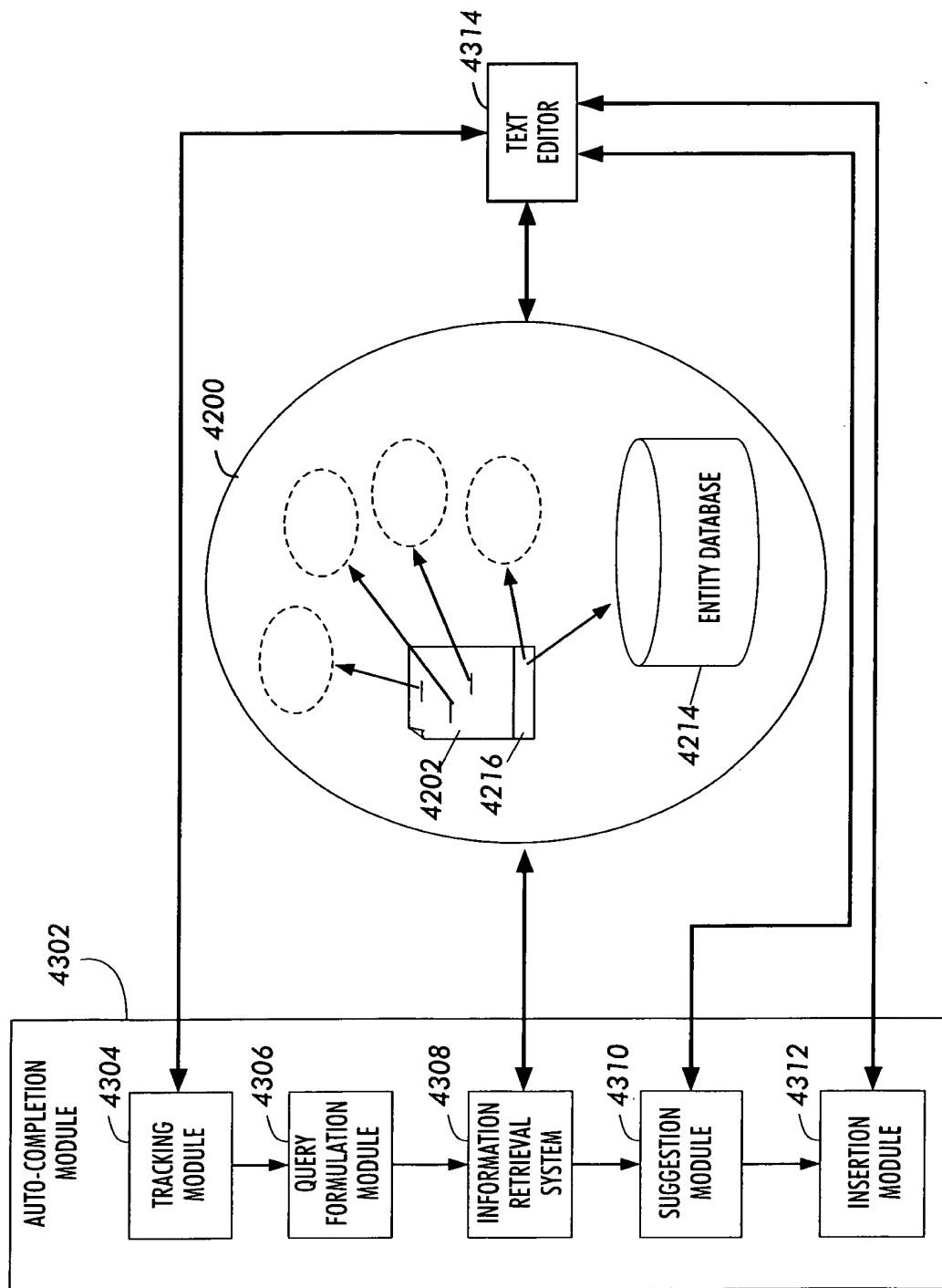


FIG. 43

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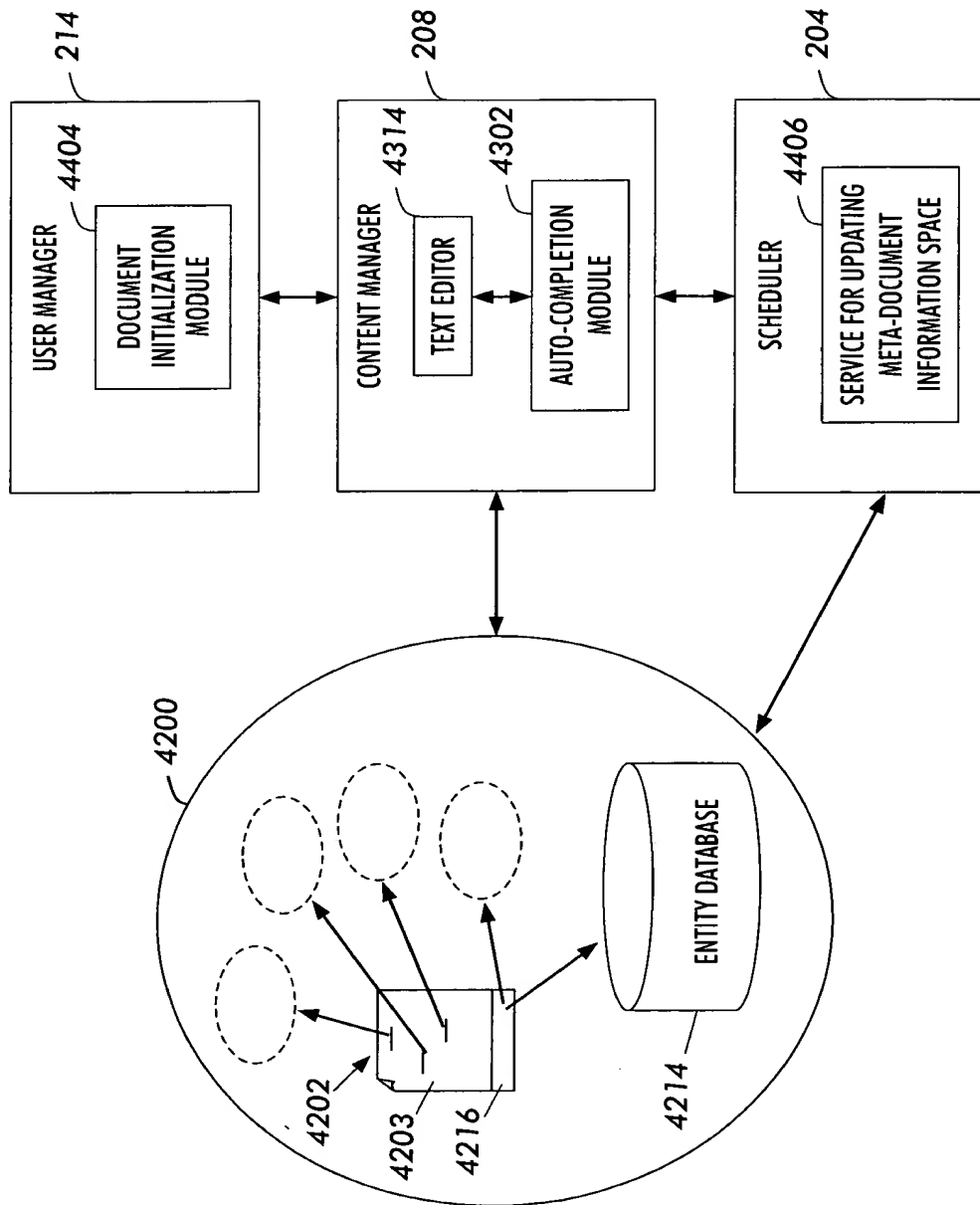


FIG. 44

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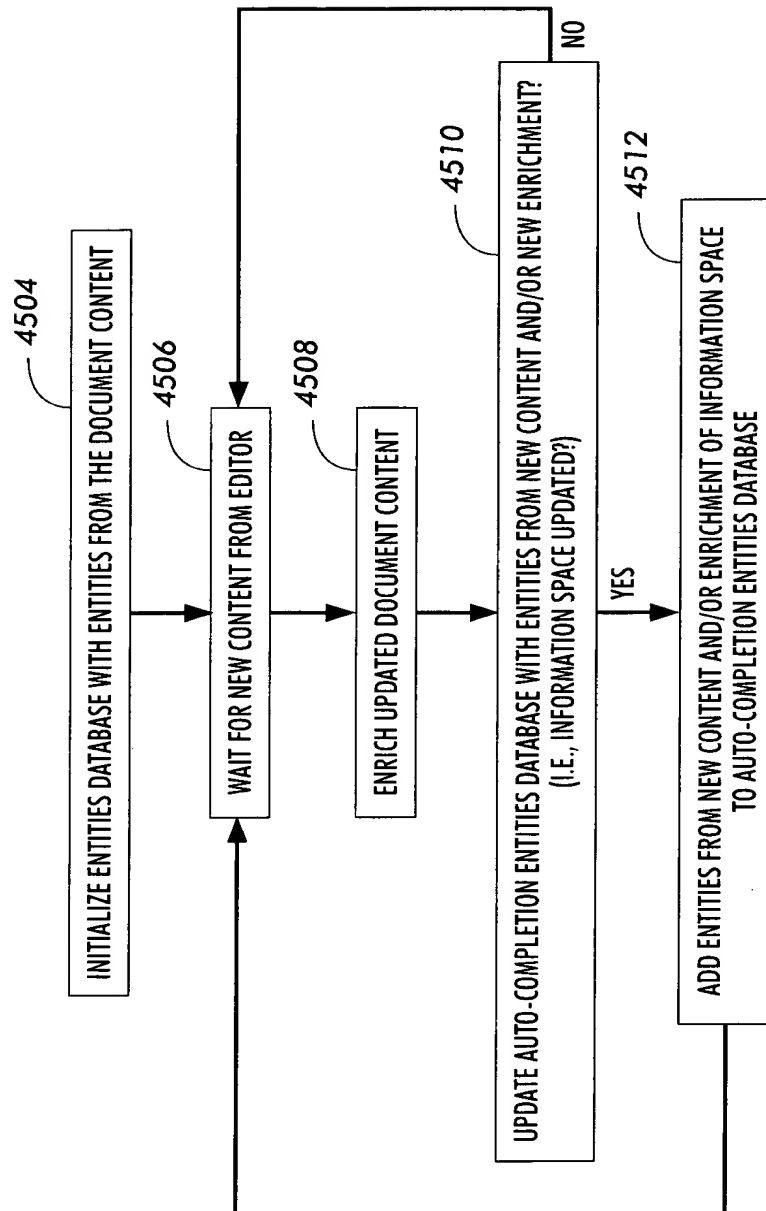


FIG. 45

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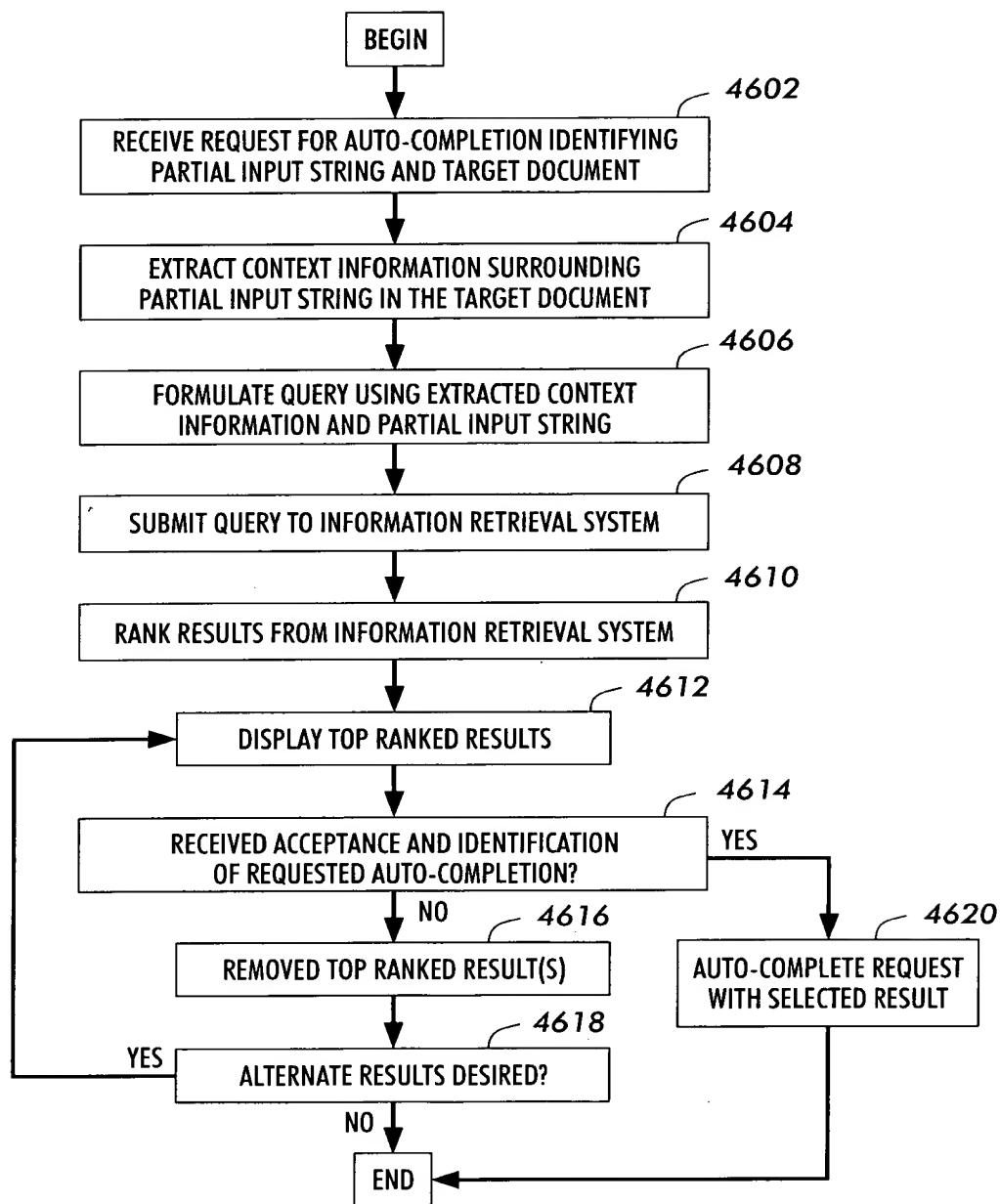


FIG. 46

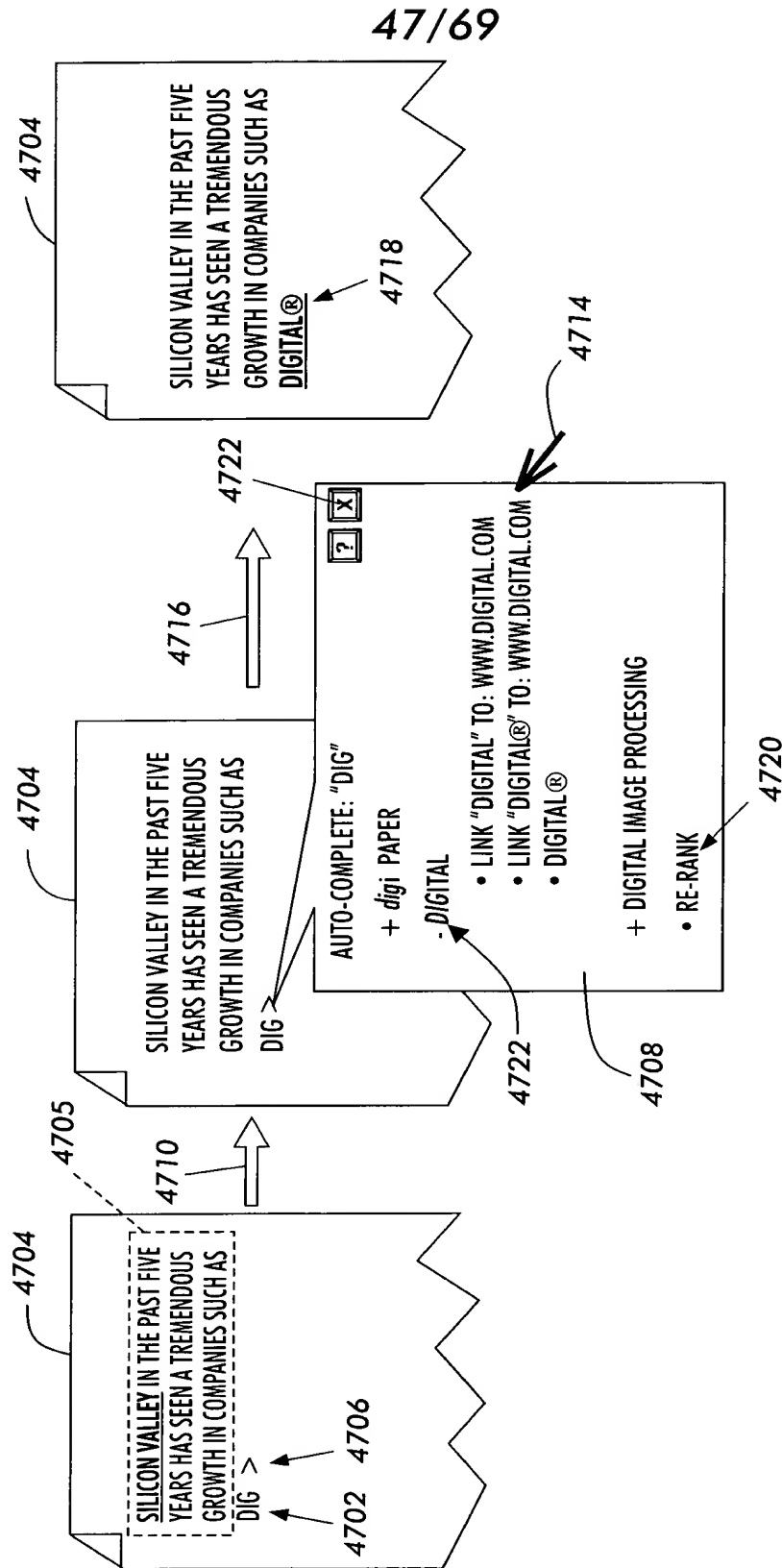


FIG. 47

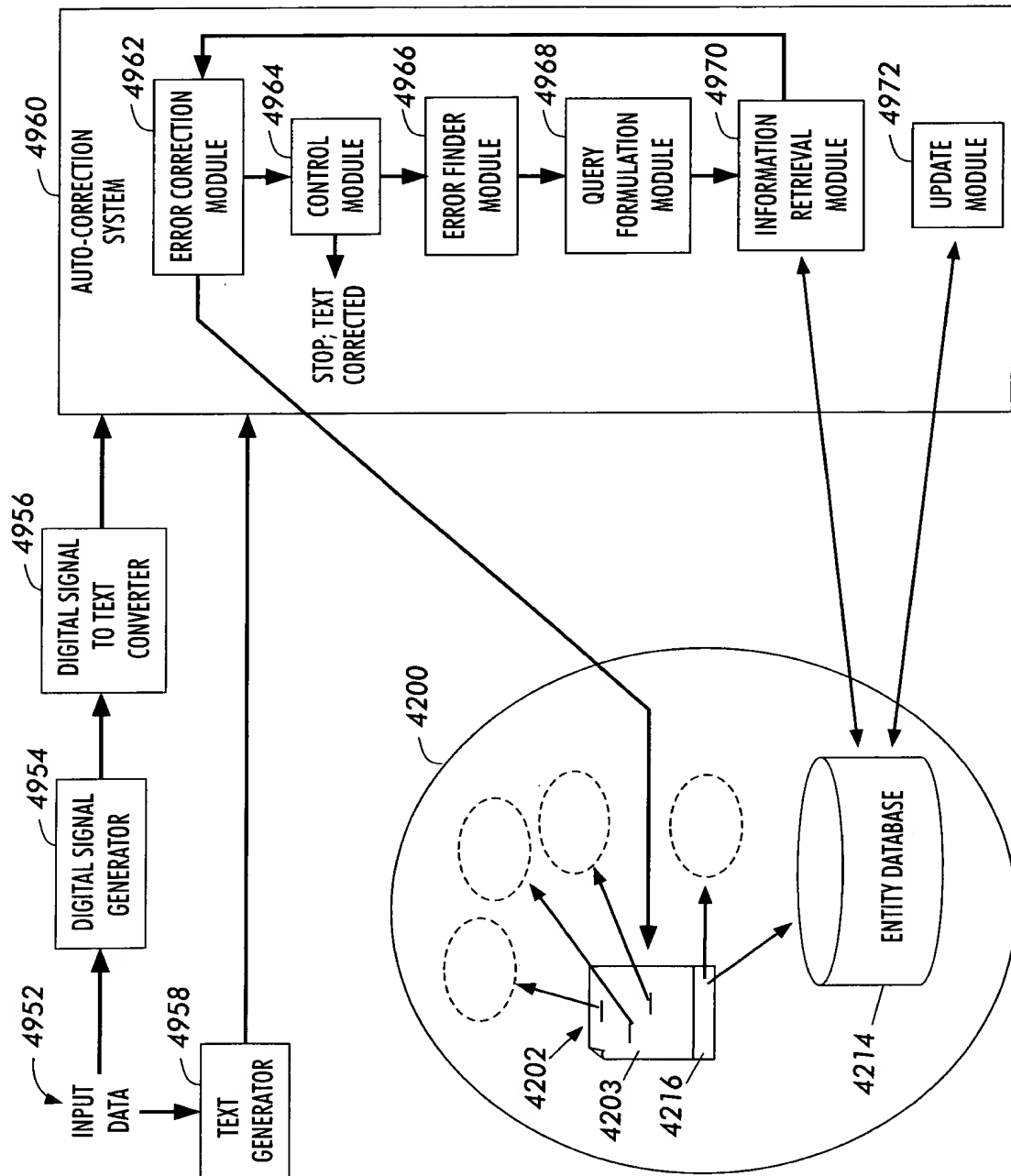


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(A) KEY	(B) ENTITY	(C) MARKUP	(D) FORMAT	(E) ORIGIN	(F) ORIGIN POSITION	(G) PART OF SPEECH	(H) CONTEXT
Sili	Silicon Valley	www.siliconvalley.com	Capitalize	TARGET DOCUMENT CONTENT	1	Noun	Science
Dig	Digital	www.digital.com	®	www.digital.com	434	Adjective	Science
Dig	DigiPaper	NONE	Bold	www.parc.xerox.com	23	Noun	Science
Dig	digress	NONE	NONE	www.nytimes.com	343	Verb	Politics
...	...	...	...	...	...	...	...

FIG. 48

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**FIG. 49**

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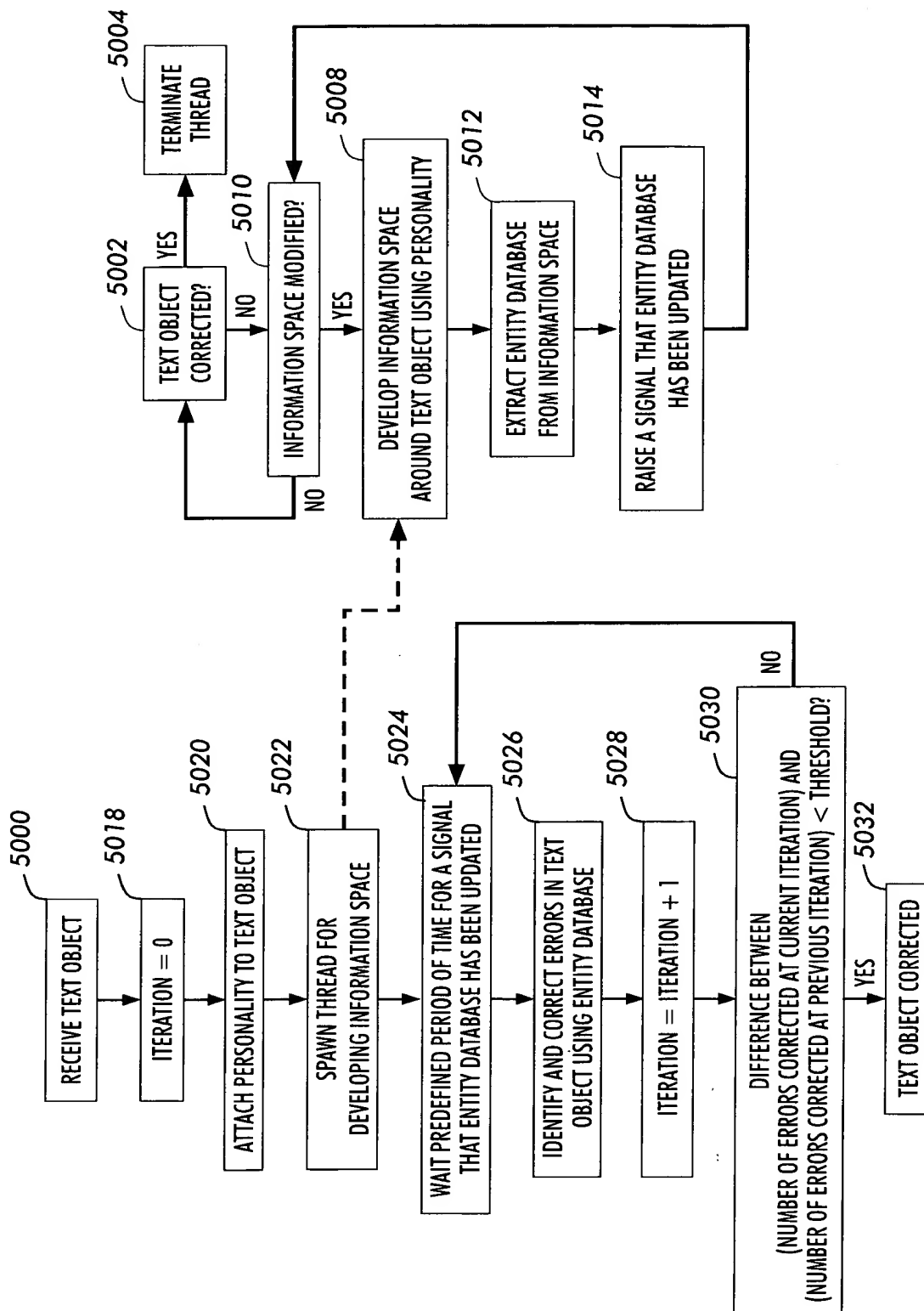


FIG. 50

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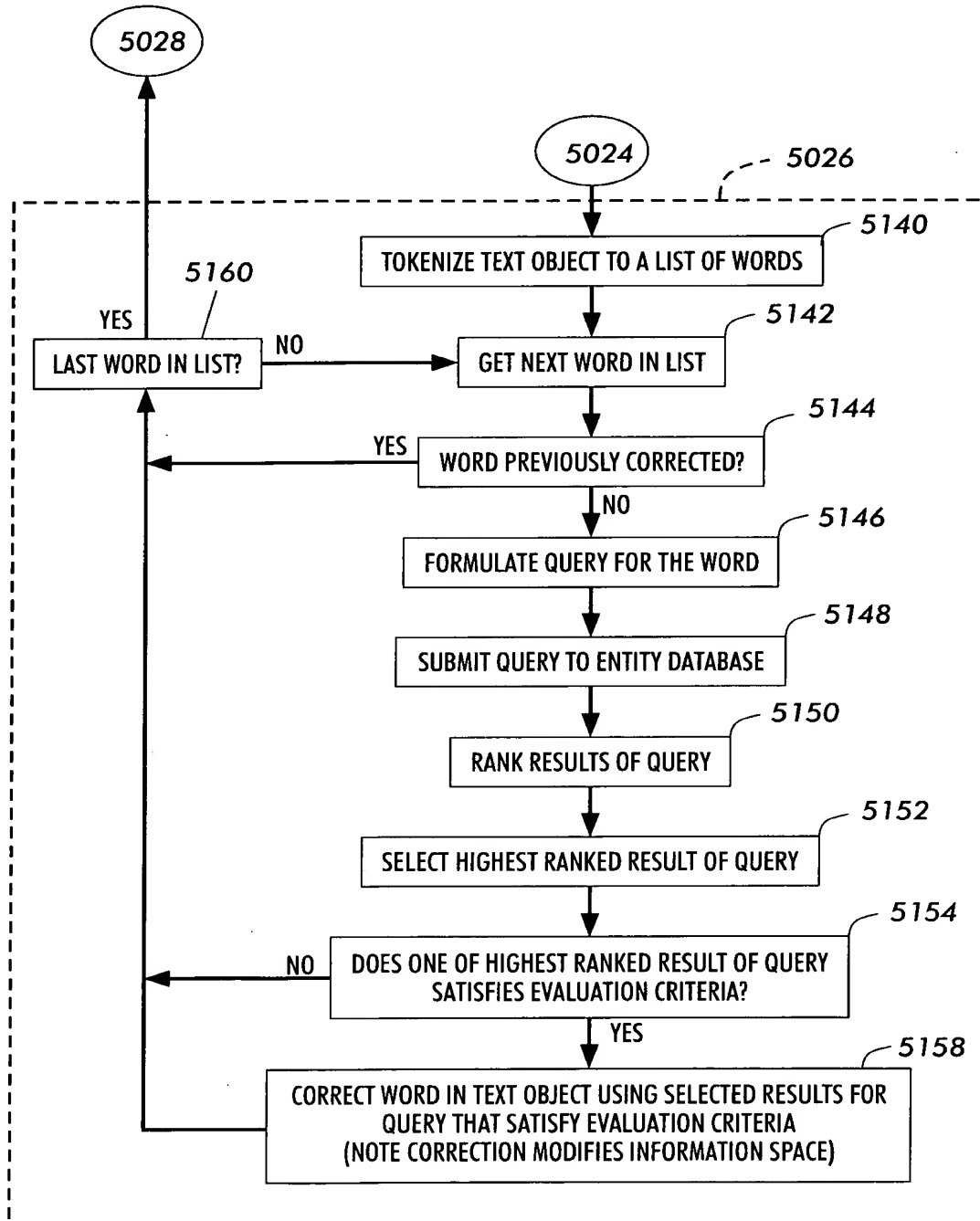


FIG. 51

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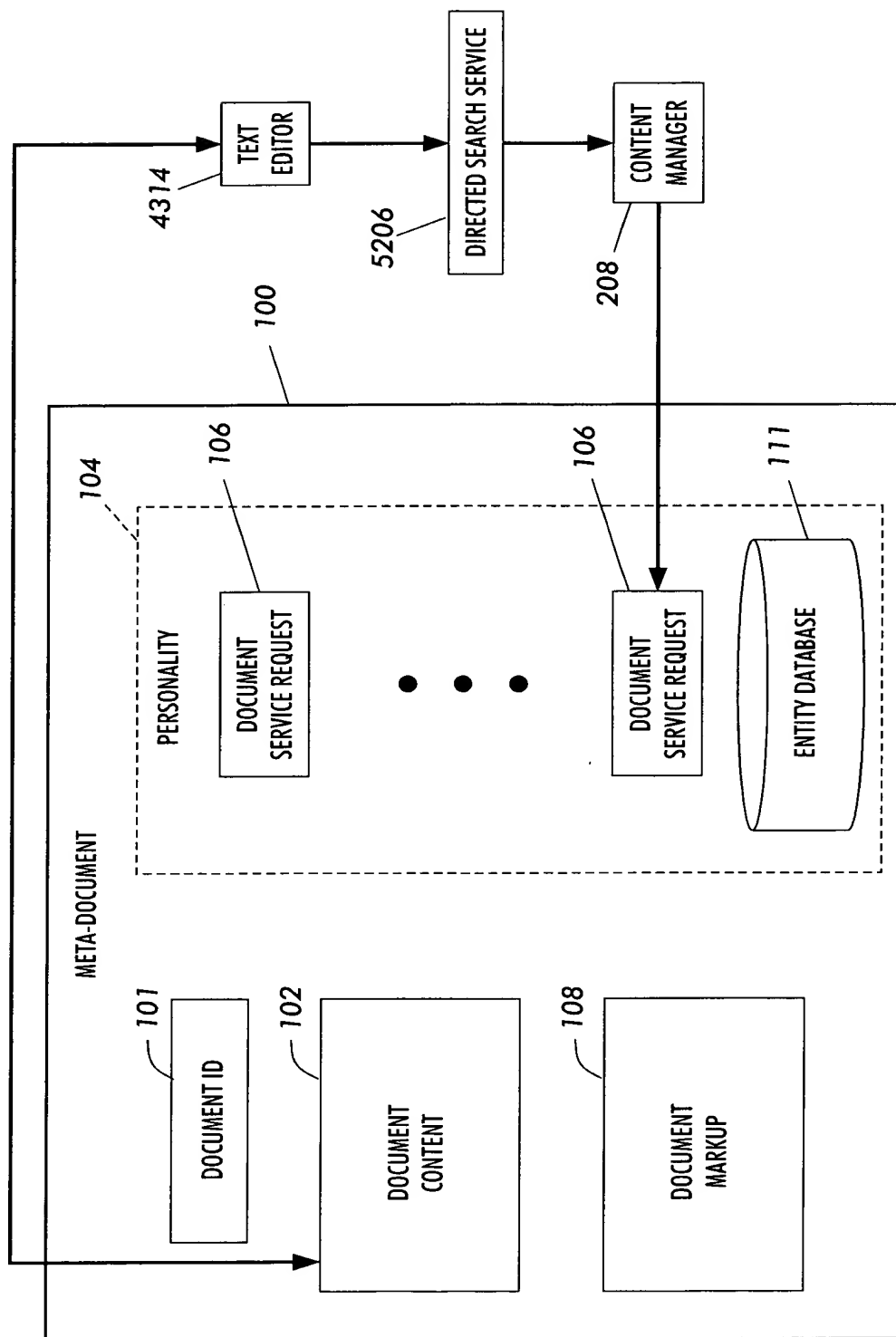


FIG. 52

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5300

**DIRECTED SEARCH** [?] [X]

5302 Get:  For:  5304

5306 Insert Result as: ☐ Link ☒ Content ☐ Metadata

5308 Update Frequency:

Select Providers

5310 Reuters  
Thomson  
Hoover

Search Selected Providers By:

5318 ☒ Cost  
5320 ☐ Speed  
5322

Ensures:

Language of text is:

☒ Premium ☐ Non-Premium

☐ Low Quality ☒ High Quality

☐ Copyrighted ☒ Not Copyrighted

☐ Free ☒ Paid Max price \$:

Maximum number of words:

5312

Location Of Results:

5314 ☒ After Current Selection  
☐ Before Current Selection  
☐ As Comment To Current Selection  
☐ As Footnote To Current Selection

Current Selection Is:

5315 Xerox in the past five years has seen tremendous growth 5317

5316

Cancel Insert

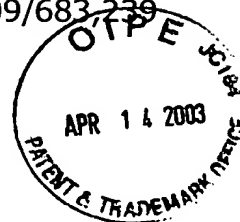
FIG. 53

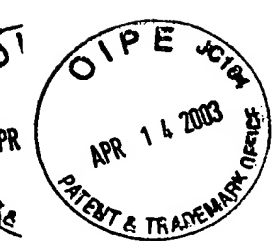
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5400

```
<service id='Products'
  refresh=30
  insert='Content'
  language='En'
  quality='Premium&High&Not-copyrighted&paid'
  maxprice='50'
  maxwords='2000'
  search='cost'>
  <entity>Xerox
    <offsets>13 18 456 461 710 715</offsets>
    <provider name='Thomson' id=18></provider>
    <provider name='Reuters' id=19></provider>
  </entity>
</service>
```

FIG. 54

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5500

**IMPORT/EXPORT** [?] [X]

EXPORT    NAME:   5502

**EXPORT :**

- ☒ ORIGINAL DOCUMENT CONTENT
- ☒ DOCUMENT MARKUP (I.E., ENRICHMENT)
- ☒ PERSONALITIES

5504

5506

5508

☐ IMPORT    NAME:   5512

**IMPORT:**

- ☒ ALL CONTENT
- ☐ SELECTED CONTENT ONLY
  - ☐ ORIGINAL DOCUMENT CONTENT
  - ☐ DOCUMENT MARKUP (I.E., ENRICHMENT)
  - ☐ PERSONALITIES

5510

☒ BIND UN-MATCHED ELEMENTS

☒ ENHANCE BOUND ELEMENTS WITH EXISTING SERVICE PROVIDERS

5514

FIG. 55

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```

<!-- SERVER ID>
<docsouls:serverid> DS v1.0 server name </docsouls:serverid>
<!-- PROPERTIES OF DOCUMENT>
  <docsouls:docid> xxx </docsouls:docid>
  <docsouls:name> xxx </docsouls:name>
  <docsouls:owner> xxx </docsouls:owner>
...
<!-- ORIGINAL DOCUMENTS DOCUMENT CONTENT>
<docsouls:originaldoc format="HTML">toto.html</docsouls:originaldoc>
<docsouls:browsingdoc format="HTML">browse.html</docsouls:browsingdoc>

<!-- LIST OF PERSONALITIES AND DOCUMENT SERVICE REQUESTS>
<docsouls:endowmentdescription>
  <!-- LIST OF PERSONALITIES>
  <docsouls:personality id = " " name=" " etc.>
    <docsouls:service id=" " name=" " etc.>
      <docsouls:provider name=" " etc.>
        <docsouls:provider name=" " etc.>
      </docsouls:service>
    </docsouls:service>
  </docsouls:personality>
...
<!-- LIST OF SERVICE REQUESTS>
<docsouls:service id=" " name=" " etc.>
  <docsouls:provider name=" " etc.>
    <docsouls:provider name=" " etc.>
  </docsouls:service>
...
</docsouls:endowmentdescription>

```

FIG. 56

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```

<!-- DESCRIPTIONS OF PERSONALITIES>
<docsouls:personalitydescription>
  <docsouls:id> xx </docsouls:id>
  <!-- all the fields AND service categories>
  <docsouls:servicecategory id="" name = "">
</docsouls:personalitydescription>

<!-- NEXT PERSONALITY DESCRIPTION>
...

<!-- DESCRIPTION OF DOCUMENT SERVICE REQUESTS>
<docsouls:servicedescription>
  <docsouls:id> xx </docsouls:id>
  <!-- list all fields (e.g., "refresh period", category, etc.)>
  <!-- list all providers>
  <docsouls:provider id="" name = "">
  <!-- list all strategies>
  <!-- list status of services (original, frozen, mapped, etc.)>
  <docsouls:servicestatus status="mapped" originalid="" originalserver="">
  <!-- list ServerId if the service was not available on current server>
  <docsouls:serverid>id</docsouls:serverid>
</docsouls:servicedescription>

<!-- NEXT SERVICE REQUESTS DESCRIPTION>
...

```

FIG. 57

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```
<!-- DESCRIPTION OF PROVIDERS >
<docsouls:providerdescription>
  <docsouls:id> xx </docsouls:id>
  <!-- all the fields e.g. key, URL, etc.>
</docsouls:providerdescription >

<!-- DESCRIPTION OF DICTIONARIES >
<docsouls:dictionarydescription>
  <docsouls:id> xx </docsouls:id>
  <!-- all the fields, e.g. category>
</docsouls:dictionarydescription>

<!-- DESCRIPTION OF STRATEGY >
<docsouls:strategydescription>
  <docsouls:id> xx </docsouls:id>
  <!--all the fields>
  <!--all the dictionaries>
</docsouls:strategydescription>

<!-- RESULTS OF GLOBAL SERVICES >
<docsouls:globalservice id="Summary">
  <docsouls:link> xxx </docsouls:link>
  <docsouls:content> xxx </docsouls:content>
</docsouls:globalservice>

<!-- OTHER RESULTS (E.G. KEYWORDS, CATEGORIES, ETC.) >
```

FIG. 58A



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```
<!-- (OPTIONAL) DESCRIPTION OF ENRICHMENT PERFORMED AT OTHER DOCUMENT ENRICHMENT
SYSTEMS>
<docsouls:serverid>olderServerId</docsouls:serverid>
<docsouls:personalitydescription>...</docsouls:personalitydescription>
<docsouls:servicedescription>...</docsouls:servicedescription>

<!-- (OPTIONAL) LIST OF RESULTS OF THE LAST ENRICHMENT>
<!-- IDENTIFY DOCUMENT SECTION IN CASE OF MULTI-PART DOC>
<docsouls:docpart>main_frame.html</docsouls:docpart>
<!-- OFFSET WHEN ENRICHMENT APPLIES TO A SECTION>
<docsouls:offset> 0 200 </docsouls:offset>
<!-- STATUS OF SERVICE APPLIED ("ACTIVE" OR "FROZEN")>
<docsouls:service id="StockQuote" status="active">
  <!-- ENTITY>
    <docsouls:entity>Xerox
      <!-- NORMALIZED FORM>
        <docsouls:normform>Xerox</docsouls:normform>
      <!-- LIST OF OFFSETS WHERE ENTITY IS FOUND IN TEXT RELATIVE TO SECTION>
        <docsouls:offsets start=35 end=40 />
        <docsouls:offsets start=232 end=237 />
      <!-- DICTIONARIES>
        <docsouls:dict> xxx </docsouls:dict>
      <!-- STRATEGIES>
        <docsouls:strat> xxx </docsouls:strat>
      <!-- LINK INFORMATION>
        <docsouls:link> xxx </docsouls:link>
      <!-- CONTENT INFORMATION>
        <docsouls:content> xxx </docsouls:content>
    </docsouls:entity>
  <!-- NEXT ENTITY>
    ...
</docsouls:service>
```

FIG. 58B

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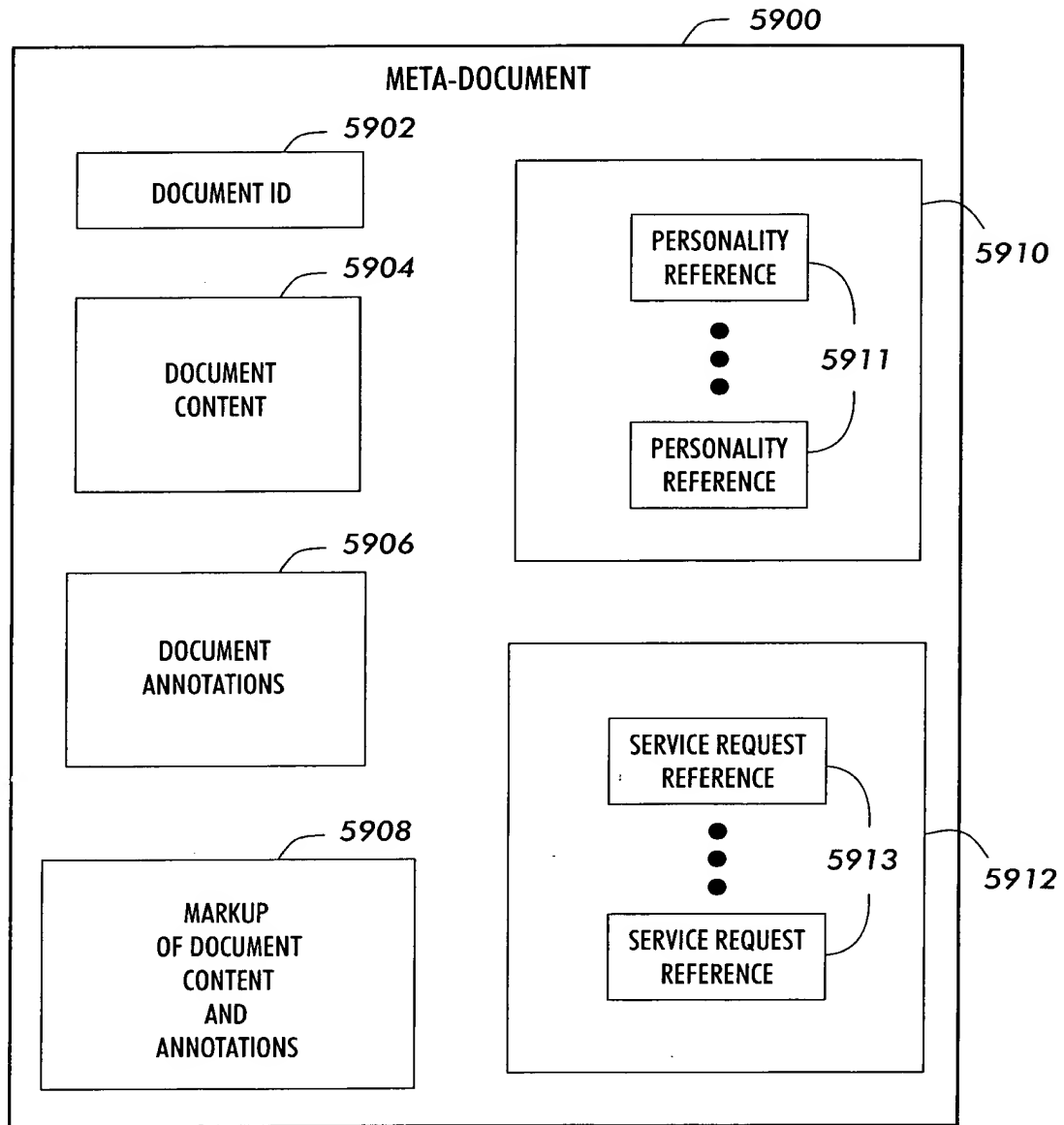
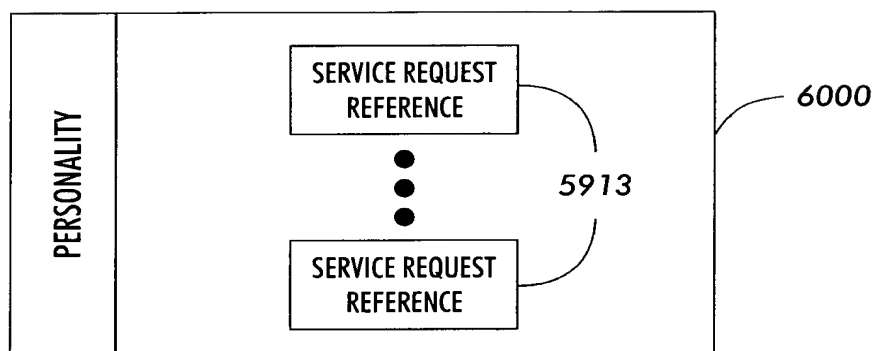
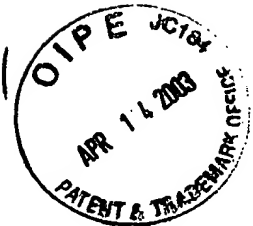


FIG. 59

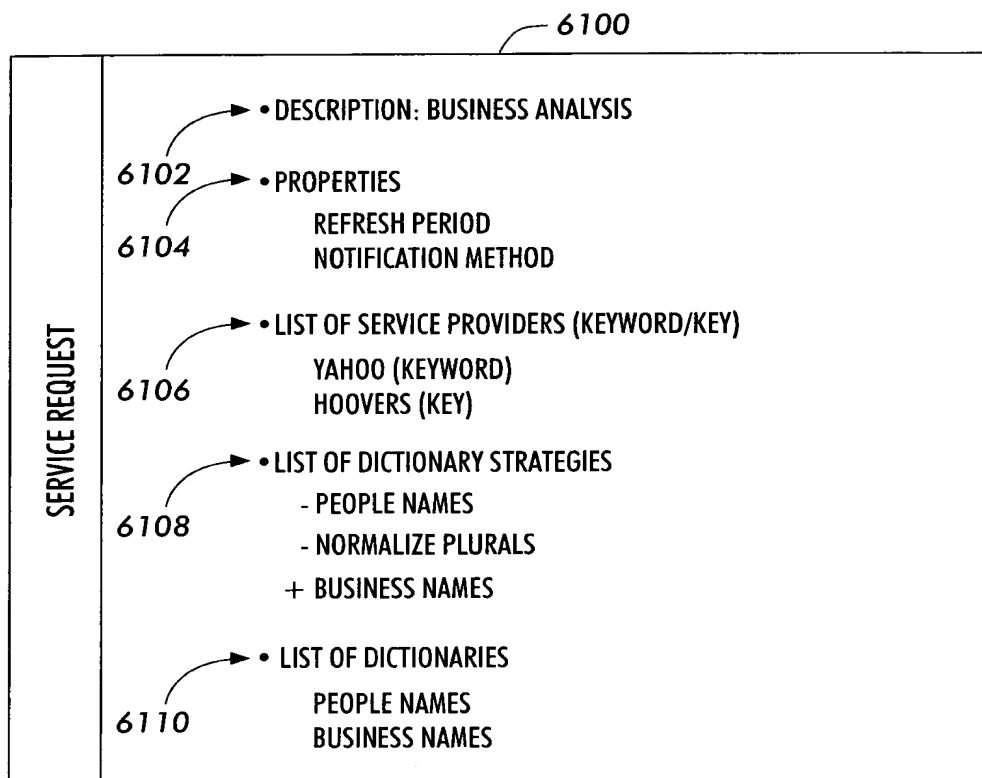
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**FIG. 60**



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**FIG. 61**

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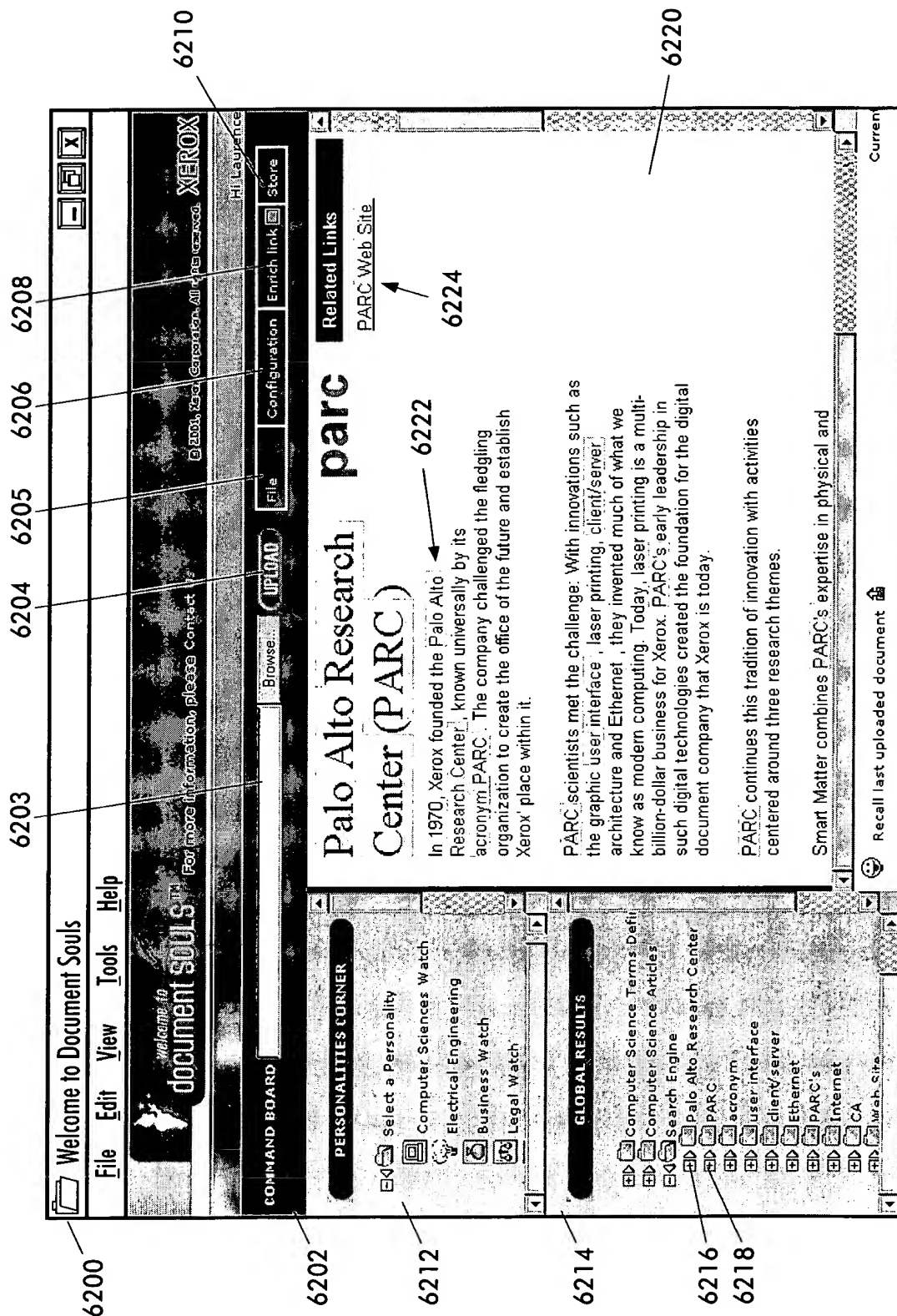


FIG. 62

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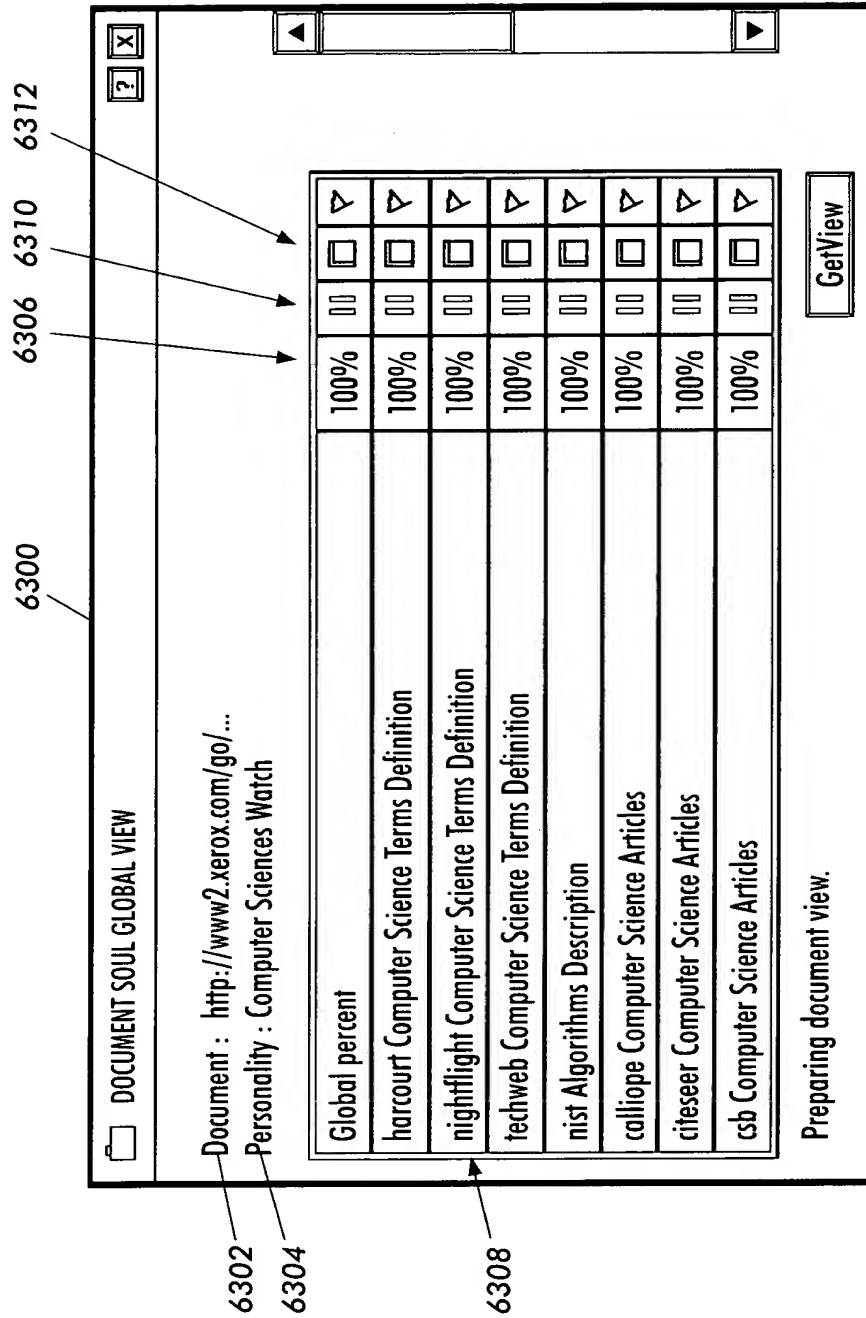


FIG. 63



2176  
09/683,239

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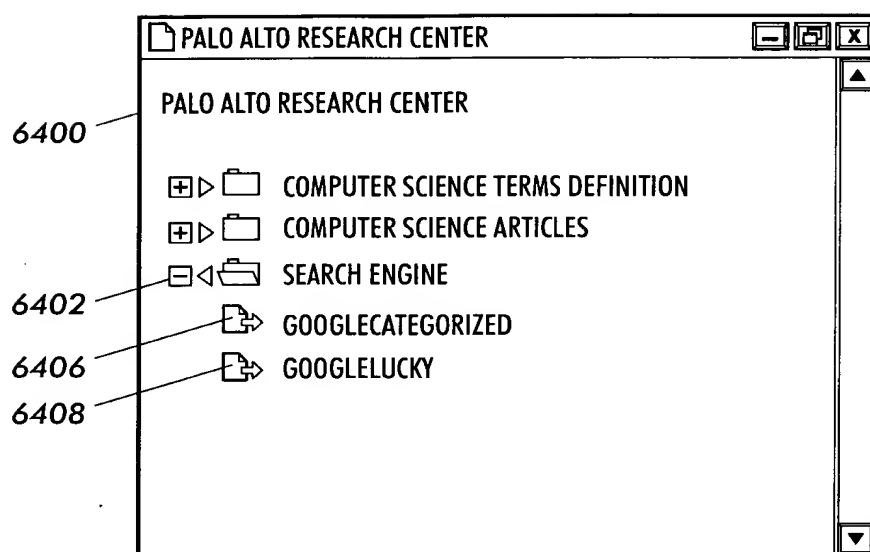


FIG. 64

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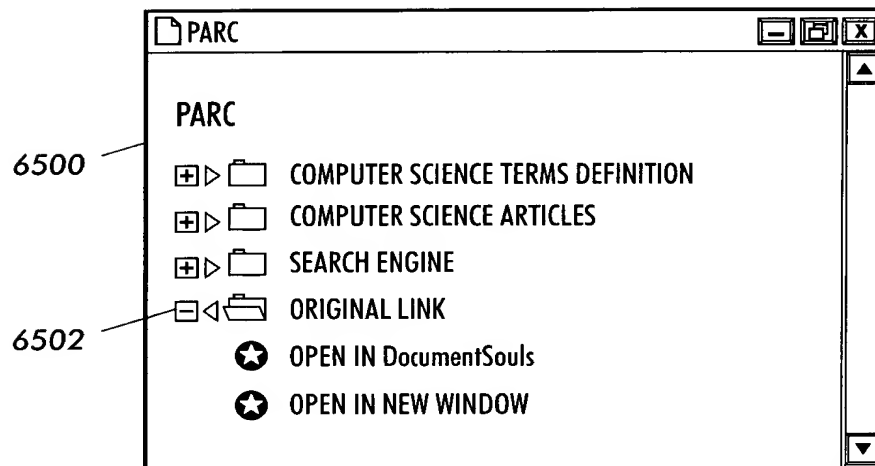


FIG. 65

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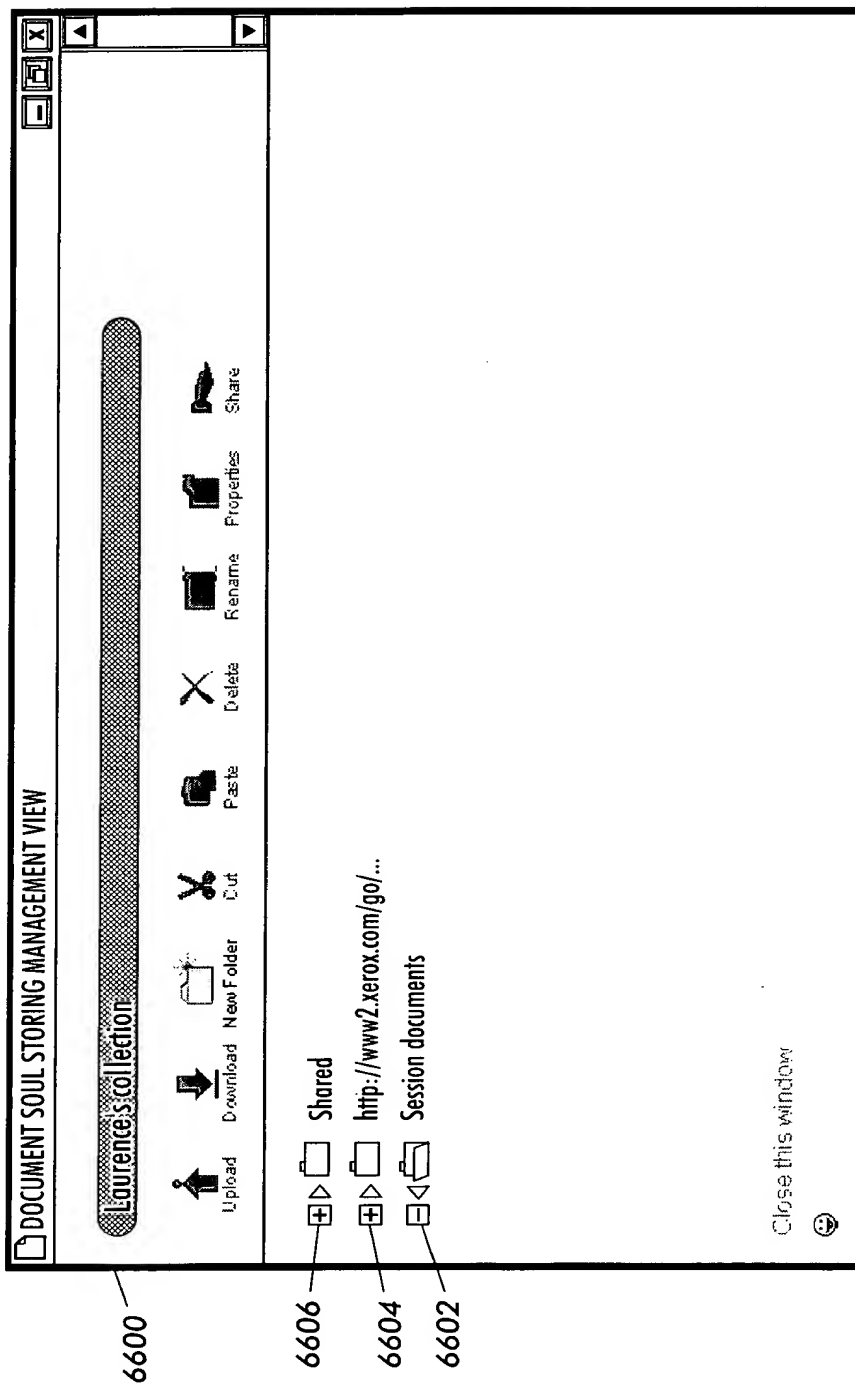


FIG. 66

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DOCUMENT SOUL MARKING OPTIONS

**Marketing and Enrichment option:**

Add an enrich button to your browser: Enrich with DocSouls (drag & drop this link to your toolbar, Unix Netscape user: right click on the link and choose **add bookmark for link** then edit your bookmark and rename it)

**Default personality:**

☐ Choose default personality: Computer Sciences Watch

☒ Always ask for personality

☐ Color of marked words:

☐ Automatically enrich any uploaded document with the default personality

☒ Enrich followed links

SUBMIT CANCEL

6700

6702

6704

6706

6708

6710

FIG. 67

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DOCUMENT SOUL SERVICES CONFIGURATION

List of available service categories:

Abstracts

Name	Type	Status	Priority	Provider	Dico(s)	Refresh	Query
Abstracts from Compendex	STANDARD	Unknown	LOW	uspatent_office	List	none	LINK
Abstracts from Website Ab	STANDARD	Unknown	LOW	website_abstracts	List	none	LINK

Industry Standards  
Patents and IPs  
Engineering Handbooks  
Technical News  
Technical Information

List of all Abstracts from Compendex dictionaries:

Name	Category	Select
electricalEngineering	/Science/Technology/	<input checked="" type="checkbox"/>
names	?Society/People/	<input checked="" type="checkbox"/>

FIG. 68